





CONSERVATIONISM, neoclassicism, post-modernism — these are the "isms" to adopt if you want to get ahead in the world. They are easy to find, and just need feeding regularly with slabs of Modernism.

Such was the feeling gained by attendance at the symposium on designing new buildings in historic cities, held in Bath last Friday and organised by the Georgian Group and the Bath Preservation Trust. From being on the defensive, it has suddenly become crystal clear that conservationists now have real clout. The audience featured many planners, some developers, some slightly sheepish falling Modernists, all in attendance to hear the new orthodoxy. And they certainly got it.

This may seem a rather crude and simple way of introducing an event that provided, at times, a deeply penetrating commentary on aspects of the problem of building in context. But while the talks from eminent speakers imparted wisdom that, largely, could have been gleaned before or afterwards in other ways, the symposium as a whole transcended individual contributions as if to make its own simple statement: "This is how it must

Architects, planners, developers and conservationists packed into the Huntingdon Centre, Bath, to find answers to a common problem — how to build in historic cities. Lewis Blackwell joined them.

## Conservation on the attack

work from now on."

An opening blast came from the chairman of the Royal Fine Art Commission, Norman St John Stevas, who outlined the implications of what he saw as a "sea-change" in the mood of the country towards building in historic places. His new style of leading the RFAC — marked by a willingness to speak out critically — was summed up in his call for the restoration of historic centres to "begin with demolition". In many situations this was the only way of dealing with post-war buildings that were "brutal, barbaric, philis-

tine, arrogant, totally lacking in beauty and imagination".

His plan for developing the commission includes determining sites where it believes something should not be built at all — the recent controversy over buildings proposed for the grounds of Cavendish Lodge, Bath, is a case in point. In other cases, such as the proposed development on the Podium site in Bath, he made clear his uncompromising approach by insisting that he still felt the whole design process should be started again.

Stevens peppered his speech



On the historical approach, from left: Jeremy Dixon, Quilima Terry, Leon Krier, symposium chairman Colin Amery, Georgian Group secretary Roger White, Robert Adam, J Mordaunt Crook.

with shots against the Modernist legacy. Then he handed over to Professor Joe Mordaunt Crook's heavy artillery. His talk, "From Modern to Post-modern", presented Modernist architects as obsessed with functionalism, and blind to the

fact that "beauty is not a necessary function of utility".

"Now we are all post-modernists, because we are all post-functionalists," he said. "We have to relearn what the 19th century discovered, that architecture begins where function ends." Post-modernism sought to find "identity in an age of anonymity". He believed a key boost to the development of conservationism was the work of traffic engineers in the 1940s, and said that Modernism had played itself out by presenting a functional approach where "the only perfect building would be an asylum for the blind".

The ascendancy of the aesthetic of engineering was presented by Terry Firrell as an explanation of what he is seeking to overcome at the South Bank, and would like to tuck in the Barbican: "1960s town planning schemes were in many ways the architecture of the engineer; they are unfinished, and the architect can look at it again, coming in where the engineer left off."

Jeremy Dixon's explanation of his elegant work somehow showed it to be just what everybody held in some respect, yet he did not promote any clear manifesto, other than commenting "you are not doing a proper job if you are not making an independent network". His was the most modest and impressive show of work in the day.

The young neoclassicist Robert Adam was not particularly interested in attacking the corpse of Modernism. His fresh target, dangerously close to the conservationist ranks, were those who espouse "neo-ver-nacular: the architecture of compromise". "It is a town planners' architecture, the safe choice for the panel of local authority butchers," he said.

He argued against reproduction, and for development based on knowledge of the range of styles. Historic cities and towns tended to be policed by planners

keen to ensure buildings of the ones they were and were as "impossible".

The explanation of situation, he claimed, fact that "the destruction of the Modern Movement has been transferred to the present, and that about share a bed with Manser."

"I have experienced architect/developer teams combine and obstruct planning officers trying to design its new £2.8 million office headquarters at mention," said Adam's Angel Yard.

They are Feilden & Mawson, Huchison Locke & Monk with that planners about. Lovell Construction, and Saunders Boston with William Simmell.

But if Adam demurred for invention from the schemes have been asked to fill in a form saying which they prefer, with the poll results being taken into consideration by the assessors. The final choice will be made at a council meeting on April 30.

Visitors to an exhibition of the schemes have been asked to fill in a form saying which they prefer, with the poll results being taken into consideration by the assessors. The final choice will be made at a council meeting on April 30.

Officers at Waltham Forest Council have told BD that "preliminary discussions" have taken place with the London & Metropolitan Trust — a subsidiary of the London & Edinburgh Trust — the developer behind a massive office proposal for the edge-of-city site.

London & Metropolitan has bought 12ha in Temple Mill from the British Rail Property Board and commissioned architects Trehearne & Norman Preston to work on plans for a giant fruit, vegetable and flower market with extensive car parking.

This contradicts the City Corporation's announcement last year that it had abandoned plans to move the market, and instead appointed a working party to investigate ways of improving the existing area.

It refused to comment this week on the market's move, but did confirm that talks have taken place with the London & Metropolitan Trust.

The proposed design would stack 100,000sq m of offices on to the rundown area, at a plot ratio of around 10 to 1.

Meanwhile the Royal Fine Art Commission has said it is deeply concerned at the failure of the council to undertake a full environmental impact study of the scheme.

The Government is taking a second look at the loophole which has encouraged developers to submit planning applications designed to fall in the hope of getting compensation.

In 1985 an Act was introduced to outlaw the practice whereby developers submitted unacceptable applications for "penthouse flats" in the hope of getting a refusal and substantial compensation.

The play arose because of the 1971 Town & Country Planning Act's provision for landowners to carry out certain limited developments on their own land. Where the secretary of state turns these applications down, compensation is payable by the local authority.

Subsequently, planning authorities became unwilling to turn down such applications for fear of incurring a liability to compensate the applicant. A 1985 Act to amend the

## Colchester cuts HQ shortlist

COLCHESTER council has cut down to three the shortlist of architect/developer teams competing to design its new £2.8 million office headquarters at mention," said Adam's Angel Yard.

They are Feilden & Mawson, Huchison Locke & Monk with that planners about. Lovell Construction, and Saunders Boston with William Simmell.

But if Adam demurred for invention from the schemes have been asked to fill in a form saying which they prefer, with the poll results being taken into consideration by the assessors. The final choice will be made at a council meeting on April 30.

## Giant tower decision

TOWER Hamlets council will approve or reject Ian Ritchie's design for a 60-storey office tower in Aldgate before next month's local elections, a spokesman said this week.

Planning and employment gains are expected to outweigh environmental considerations, he suggested.

Meanwhile the Royal Fine Art Commission has said it is deeply concerned at the failure of the council to undertake a full environmental impact study of the scheme.

The proposed design would stack 100,000sq m of offices on to the rundown area, at a plot ratio of around 10 to 1.

The Government is taking a second look at the loophole which has encouraged developers to submit planning applications designed to fall in the hope of getting compensation.

In 1985 an Act was introduced to outlaw the practice whereby developers submitted unacceptable applications for "penthouse flats" in the hope of getting a refusal and substantial compensation.

The play arose because of the 1971 Town & Country Planning Act's provision for landowners to carry out certain limited developments on their own land. Where the secretary of state turns these applications down, compensation is payable by the local authority.

Subsequently, planning authorities became unwilling to turn down such applications for fear of incurring a liability to compensate the applicant. A 1985 Act to amend the

compensation regulations seems to have halted the "penthouse flats" problem, but the Government has committed itself to a review of the whole area.

Now it proposes to abolish the right to compensation for landowners' own improvements, replacing it instead with automatic permission. This permission provision could, of course, be varied in future by changes in the General Development Order.

It also plans to abolish compensation for refusal of listed building consent in cases where no planning permission is required for the work. The provision as it stands could mean that local authorities are reluctant to refuse listed building consent in such circumstances because of the compensation cost.

The Government's consultation paper proposes to leave the core of the Act's compensation provisions intact.

# Spitalfields move clears way for City office scheme

SPITALFIELDS, the giant fruit and vegetable market in East London, is to be moved to Waltham Forest, confirming plans by the City Corporation to sell Spitalfields for a major office development.

Officers at Waltham Forest Council have told BD that "preliminary discussions" have taken place with the London & Metropolitan Trust — a subsidiary of the London & Edinburgh Trust — the developer behind a massive office proposal for the edge-of-city site.

London & Metropolitan has bought 12ha in Temple Mill from the British Rail Property Board and commissioned architects Trehearne & Norman Preston to work on plans for a giant fruit, vegetable and flower market with extensive car parking.

This contradicts the City Corporation's announcement last year that it had abandoned plans to move the market, and instead appointed a working party to investigate ways of improving the existing area.

It refused to comment this week on the market's move, but did confirm that talks have taken place with the London & Metropolitan Trust.

The proposed design would stack 100,000sq m of offices on to the rundown area, at a plot ratio of around 10 to 1.

The Government is taking a second look at the loophole which has encouraged developers to submit planning applications designed to fall in the hope of getting compensation.

In 1985 an Act was introduced to outlaw the practice whereby developers submitted unacceptable applications for "penthouse flats" in the hope of getting a refusal and substantial compensation.

The play arose because of the 1971 Town & Country Planning Act's provision for landowners to carry out certain limited developments on their own land. Where the secretary of state turns these applications down, compensation is payable by the local authority.

Subsequently, planning authorities became unwilling to turn down such applications for fear of incurring a liability to compensate the applicant. A 1985 Act to amend the

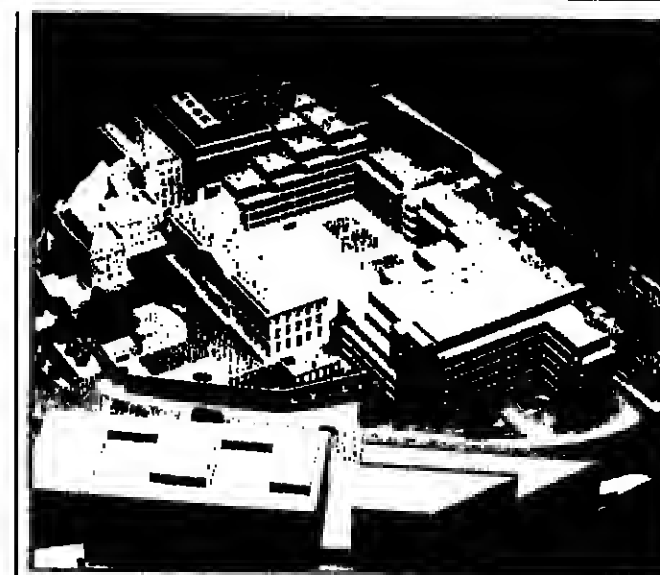
compensation regulations seems to have halted the "penthouse flats" problem, but the Government has committed itself to a review of the whole area.

Now it proposes to abolish the right to compensation for landowners' own improvements, replacing it instead with automatic permission. This permission provision could, of course, be varied in future by changes in the General Development Order.

It also plans to abolish compensation for refusal of listed building consent in cases where no planning permission is required for the work. The provision as it stands could mean that local authorities are reluctant to refuse listed building consent in such circumstances because of the compensation cost.

The Government's consultation paper proposes to leave the core of the Act's compensation provisions intact.

## News



## Mint plan gets go-ahead

The extension of London City's boundaries continues apace — while Spitalfields is now set to be swallowed up, a massive office scheme for the Royal Mint site has just gained approval.

Sheppard Robson's designs for a 50,000sq m office scheme in four blocks forms a square around the (81) Johnson-Smilke Neoclassical mint building, which will also be refurbished for office use.

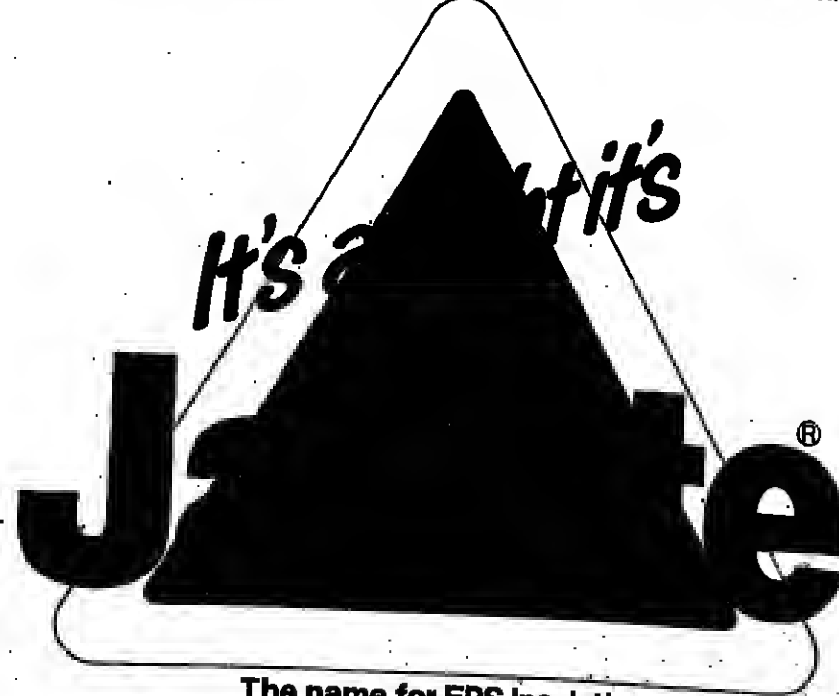
Besides the offices, the redevelopment of the 2.5 ha site includes 80 flats, a community centre, shops, museum complex, leisure facilities, parking, pub, restaurant, cafe and open space. The scheme will be linked by subways to St Katherine's Dock, Tower Hill and the Docklands Light Railway stations.

Tower Hamlets planning approval came through despite strong local objections to the scheme.

# It's wall right it's

## Jablite Cavity

- △ Retains the benefits of the cavity.
- △ First to hold an Agrément Certificate.
- △ Competible with traditional build.
- △ Will last the life of the building.
- △ Has been in use for over 10 years.
- △ Lightweight, easy to handle and fix.
- △ Widely accepted by both the public and private sectors of the industry.



The name for EPS insulation

VENCEL RESIL LIMITED · ARNDALLS HOUSE · 18-20 SPITAL STREET · DARTFORD · KENT · DA1 3HT  
TELEPHONE (0522) 97299 · TELETYPE 19411 100027



## Gontran Goulden OBE

GONTRAN Goulden OBE, who died last week, is best remembered as a most effective and popular director of the Building Centre during the expansive days of the 1960s.

He was involved in reconstructing the premises at 26 Store Street and in making the centre widely known. Above all he was an internationalist, being director of the International Union of Architects Congress in Britain in 1961 and later president of the International Union of Building Centres.

Born in 1912, he qualified at the Bartlett in 1936. An assistant to Graham Dawbarn until 1939, in the war he rose to the rank of brigadier and was twice mentioned in despatches. After 1945 he practised with Hugh Casson, building houses in London,

## £20,000 award marks UN year of homeless

INNOVATIVE housing projects may be eligible for entry in a £20,000 award scheme being run with the 1987 United Nations International Year of Shelter for the Homeless.

The Building & Social Housing Foundation has put up two £10,000 prizes for the best housing projects in a developed country and an under-developed country which "offer sustainable futures to the residents and which present practical and imaginative solutions to current housing problems".

It is expected that the projects chosen will address issues such as unemployment and diminishing energy resources, urban or rural decline, and also offer consistent management methods.

The awards will be offered this year and next, and awards for 1985 are now being judged. Submissions for the 1986 awards must be made by September 30, to the Building & Social Housing Foundation, Memorial Square, Coalville, Leicestershire LE6 4EU.

## Changing ventilation into air ecology

Vent-Axia has met the challenge of changing patterns of indoor living with a brilliant advance in unit ventilation.

More sealed environments and double glazing to conserve fuel costs and improve comfort have led to a large increase in indoor pollution.

At the same time, people have become more and more aware of the ill-effects of stale air on the way they feel and work.

To overcome these growing problems, Vent-Axia has developed the new T-Series. Ventilation can now be matched to the need of each location with

an extensive range of 16 models and 12 performance choices. The T-Series offers fully automatic control using sensor switches regulated by such factors as

heat, humidity and time. Each designer-styled unit also allows for reversible air flow and three levels of performance.

As most people spend more time inside than out, you can realise the importance of controlling the indoor environment.

And how much the new Vent-Axia T-Series is going to contribute to the quality of indoor life.

Tell me all — send me information on the new Vent-Axia T-Series covering Window, Wall, Roof and Panel models.

Name: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_

Postcode: \_\_\_\_\_

Post to: Vent-Axia Limited, Fleming Way, Crawley, West Sussex RH10 2NN.

Or phone: 0293 26062.

BD 23047

**Vent-Axia**

Anything less is a false economy

(Vent-Axia Ltd. A Member of the APV Group)

12 NATIONWIDE VENT-AXIA SALES, SERVICE AND DISTRIBUTION CENTRES: SEE YOUR YELLOW PAGES.

Enter 3 ON EXPRESS ENQUIRY CARD



# Dixon's scheme for opera house fulfils Inigo Jones' vision

JEREMY Dixon's long-awaited scheme for extending the Royal Opera House, Covent Garden, will fulfil a version of Inigo Jones' vision of an arcade frame to the piazza.

The design — which may still not be submitted for planning permission until June, according to ROH officers — proposes an arcade running along part of the north and east side of the square, with a new entrance to the opera house at the corner.

This entrance would lend into a dramatic double spiral stair tower, giving access directly into the auditorium and relieving the excessive crush of the "crush" bar.

The arcades will differ from the crude reproduction Jones' of existing buildings on the north-west of the piazza. Dixon, who has worked with Bill Jack of BDP, intends introducing lunettes between the south and west facing arches, which adopt a stripped classicism.

Above the arcade, which gives onto shops, will be two floors surmounted by an open loggia, where the public will be able to look down on the piazza.

But while it is likely that the public areas of the scheme will attract praise, Dixon and the

**By Lewis Blackwell**

opera house trustees will have more of a problem with the office and opera backstage provisions.

In particular, the massive flytower, a largely featureless block which will rise well above the rest of the scheme, has already attracted criticism from planners.

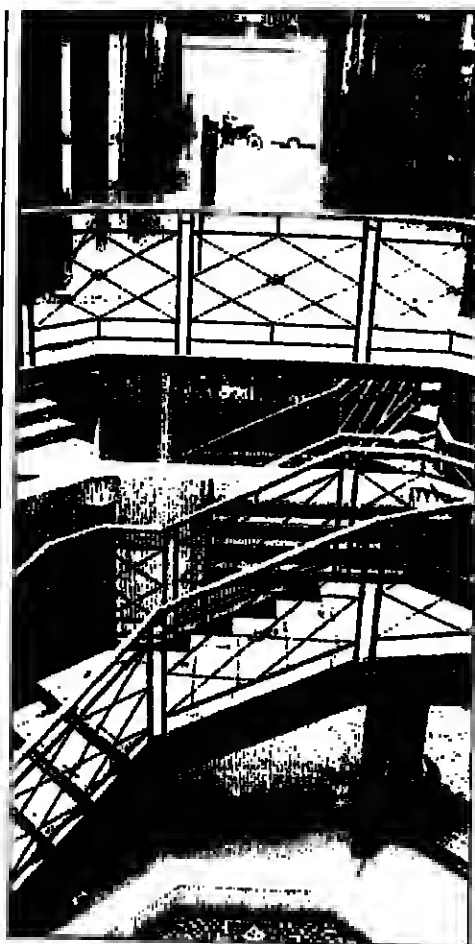
Dixon's view is that it is hardly possible for the planners to accept — indeed, desire — an opera house in such a position without accepting the huge flytower required for modern facilities.

But he has been frustrated in

his attempts to deal as discreetly as possible with the huge office element, which will pay for the scheme. The trustees and their advisers rejected his plan for breaking up the commercial buildings into smaller units spread around the development, because this would have undermined its letting value.

The development is expected to cost more than £50 million, with around 20,000sq m of offices.

Dixon and Jack won the commission nearly two years ago, beating Richard Rogers, Ted Cullinan and the Canadian Jack Diamond.



## Knightsbridge job mixes old and new

Architect's £1 million revamp of a Knightsbridge house mixes old and new.

Downstairs in the newly opened-up basement, a pillars topped with glass-fibre mouldings deliberately imperfect surface to give the space an east London feel.

The steel staircase is also an 18th-century relic, down to the new limitation marble floor and fountain centerpiece.

The original timber-framed windows have been replaced. The Ionic capitals of the original pillars have been cast in epoxy resin, so the new building is indistinguishable from the old ones.

Renowned Knightsbridge architect, the former Peter Arcule was to reopen today.

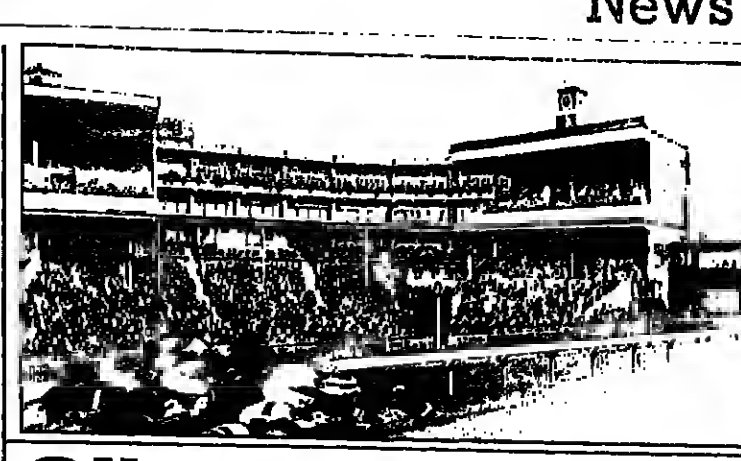
## Canadian school faces axe

ARCHITECTURAL education cuts are not just a British problem — across the Atlantic a major row has blown up over plans to close the Toronto School of Architecture.

Among leading architects and academics who have rushed to the defence of the school are IM Pei's partner, Harry Cobb, German architect Werner Seligmann, dean at Syracuse University, and Cornell architecture dean William McMin.

The closure plan follows a highly critical report on the 96-year-old school, which alleged lack of scholarship, a poor record in attracting grants, and infrequent publications.

But Michael Kirkland, a professor at the school, is among those who have attacked the accuracy of the report, saying it uses the wrong assessments and gets wildly wrong such facts as the number of design awards recently won by people connected with the school.



## Newmarket plan at starting gate

A £2.6 million new grandstand is to be built at Newmarket racecourse. Designed by Howard Lobb & Partners, the Rowley Mile stand will occupy the site of the existing Jockey Club stand. When built, it will house general seating areas, private luncheon boxes and a royal box with private lift.

Construction, by Norwest Flab, will start at the beginning of May and is due to finish by March 20, 1987, in a strict "no overlap" contract to comply with the start of next year's flat-racing season.

## Guide to awards launched

THE RIBA has launched a new guide to student prizes and awards.

The guide includes 28 competitions and award schemes, ranging in value from the \$100,000 Royal of the King Fahd Islamic Architecture to the £75 Royal Incorporation of Architects in Scotland prize for freehand drawing.

The RIBA intends to make the guide an annual publication. It includes travel grants, awards for work experience and organised study programmes.

Meanwhile, Arcuk has instituted the William Kretschmer bequest, an award of £1,500 to encourage the extension or diversification of architectural studies.

Applicants must hold a first degree or equivalent in architecture and must be either following or accepted onto a course of post-graduate study (excluding courses recognised for exemption from RIBA exams), or engaged in research at a recognised higher education institution.

An application letter with a CV and at least one testimonial must reach Arcuk at 73 Hallam Street, London W1N 6EE, before July 31.

The award will be announced in September.

## Few major Welsh jobs

ONLY 3 per cent of planning applications in Wales between July and September last year were for major projects.

According to Welsh Office figures, 38 per cent were for household extensions, conversions or similar, 48 per cent were for fewer than 10 houses or less than 1,000sq m and 1 per cent were applications for change of use.

Some 62 per cent of applications were judged within eight weeks, while a further 24 per cent took between eight and 13 weeks.

## Government guide urges smaller teaching rooms

SMALLER teaching rooms aimed at "programmed" individual learning are among the changes in the new Government space guidelines for polytechnics and higher education colleges.

Other changes, introduced to match new trends in higher education, include the need to group science equipment together to serve several subjects, and changes in entering provision.

Design Note 44, *Area Guidelines for Advanced Further Education Institutions*, is available free of charge from the Department of Education & Science, Publications Despatch Centre, Canons Park, Honey Pot Lane, Stanmore, Middlesex HA7 1AZ.

## Boom likely

THE National Council for Building Materials Producers this week predicted three years of growth in construction, through a boom in industrial building, and hopes of continued low inflation.

**WHAT ARE THE MERITS OF ANODISING AND POWDER COATING?**

**Ask the Architectural Advisory Service Centre**  
57-61 Gorse Road, Park Royal, London NW10 6LS  
Telephone: 01-885 0833

The authoritative source for information on aluminium and steel finishes.

## Law Lords ruling hits Roundhouse project

THE ruling by the Law Lords that the Greater London Council had no powers to "forward fund" £11 million for a black arts centre at the Roundhouse has left the project on the verge of collapse.

The Roundhouse board has told architect Richard Rogers and Thompson Sicomori to drop their £8 million scheme, recommended by the feasibility study, and to work on a much reduced scheme which would exclude plans for a new cinema and theatre.

But even with a drastic reduction of facilities the Roundhouse needed £1 million before it could open, said Richard Sumray, a member of the Roundhouse board. It hoped to raise the money from several sources, including the Arts Council, the Greater London Arts Association

and the London boroughs. The "first priority was to get the centre open and used". Sumray called the Law Lords' decision a "very big disappointment, with the Roundhouse as the main casualty".

This week sees the announcement of trustees for the centre including building chief Sir Alistair McAlpine. Sumray said he hoped the trustees, all from political parties, would have some influence in future negotiations.

## EGP go public

ERNEST Green & Partners were the first structural and civil engineering consultancy to go public when they floated the firm on the unlisted securities market this week.

## Council's £23m refurb won't beat cockroaches

WANDSWORTH council may never be free of its cockroach problem on the Duddington estate despite plans to spend £23 million on a major refurbishment programme.

The 1,000-dwelling deck-access estate in Battersea has 15 blocks linked by aerial walkways which allow the crawling pests to move freely around the estate.

A scheme by Lyster, Grillet & Harding to break down the blocks into smaller units with less linking walkways will help, but the cockroach problem will never go away.

A council spokesman said Duddington was a good breeding ground for cockroaches, with its central-heating ducts, false ceilings and disused basements.



The space that separates people these days is seldom enough.

What's more, efforts to overcome the problems of overcrowding haven't proved entirely successful.

Hence the timely introduction of British Gypsum's new drylining product, Gyproc Tri-Line.

So much so, that it meets or surpasses the levels that have been laid down in the National Building Regulations.

## Gyproc Tri-Line. It's too good to be true.

When applied to separating walls, Tri-Line laminate is without question an effective treatment for providing sound insulation in semi-detached and terraced houses and flats.

If all this sounds like rather good news, then there's more to come. Tri-Line laminate also provides thermal insulation and fire protection.

In fact, as Tri-Line conforms to British Standard 476, Parts 6 and 7, the surfaces are designated Class 0.

So, the next time you have to specify masonry walls, spare a thought for the people who are going to have to live with them.

Spare a thought for Gyproc Tri-Line.

**British Gypsum**

779264, Kirby Thore (0930) 61841, Nottingham (0602) 214111, Bolton (0204) 31741, Erit (032 24) 41122, Bristol (0272) 774251.

**stannah**  
LIFTS  
the stairbeaters

Stannah stairlifts and homelifts solve stair problems for the old or disabled at the push of a button — even when they're confined to wheelchairs. Find out more by ringing (0264) 643111 (24 hrs) or write — no stamp needed — to Dept G508 Stannah, Stairlifts National, 110, FREEPOST, Andover, SP10 3BR.

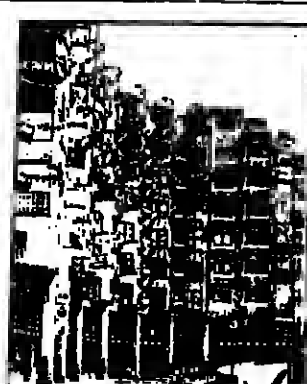
Enter 5 ON EXPRESS ENQUIRY CARD

Enter 6 ON EXPRESS ENQUIRY CARD

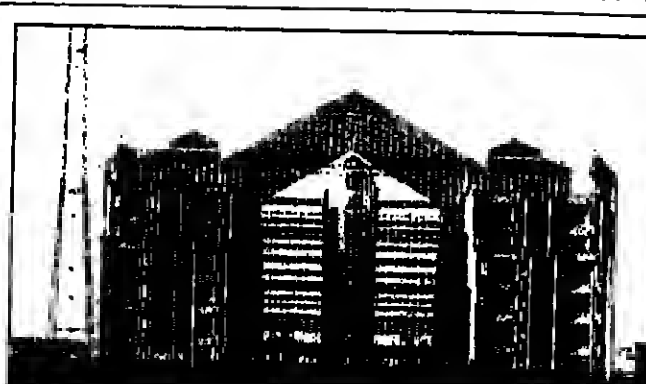




Densberg town hall, 1964.



Low-rent housing, 1975.



Zueblin House, company HQ near Stuttgart.

## Boehm wins the Pritzker

GERMAN architect Gottfried Boehm has won the 1986 Pritzker Prize.

This week's announcement makes Boehm, a third-generation architect from Cologne, the eighth recipient of the prestigious international award.

Jay Pritzker, president of the Hyatt Foundation which established the prize in 1979, described Boehm as "an excellent choice by our distinguished jury. Each of the laureates has been honoured for achievements demonstrating a combination of

talent, vision and commitment which consistently produces work to enhance the environment, and therefore humanity's

By Fiona Gorman

well. Boehm's buildings excel by all of these criteria."

Boehm, 66, was educated at the Technische Hochschule in Munich from 1942-46, where he earned a bachelor's degree in engineering, followed by a year at Munich's Academy of Sculpture.

His work, which is primarily in Europe, ranges from the simple to the complex, using many different materials with results that sometimes seem humble, sometimes monumental.

Described in the 60s as an expressionist and more recently as post-Bauhaus, his architecture is so complex as to defy categorisation.

He prefers to be thought of in terms of creating "connections". These take into account the interaction of architecture with its urban context, as well as between form, material, colour of a building and its physical and cultural environment.

He recently wrote: "I think the future of architects doesn't lie so much in continuing to fill up the landscape, as in bringing back life and order to our cities and towns, which will result from respecting and making connections within their structure."

ture, function, building materials etc."

His design for the Bensberg City Hall for which he was internationally acclaimed, illustrates his ability to reconcile new with old, while his projects for the cathedral and Heumarkt area of Cologne, the Lingotto Quarter in Torino and city centre of Boston reflect his concern with urban planning.

Boehm was presented with \$100,000 at the Museum of Modern Art, New York at the announcement of the award last Thursday. A formal award ceremony will take place at the Goldsmith's Hall in London on May 7.

Boehm joins a line of four American Pritzker prize winners: Philip Johnson, Kevin Roche, I. M. Pei and Richard Meier, as well as Luis Barragan of Mexico, James Stirling of Great Britain and last year Hans Hollein of Austria.



Municipal building, Rheinfelden, 1968.



Church, Norvège, 1964.

## Sale raises doubts on hospital restoration

CONSERVATIONISTS concerned at the future of Monkton House, the surrealist home of Edward James, will be decided this week after crucial meetings with English Heritage and the National Heritage Memorial Fund.

The trustees of the Edward James Foundation have offered the house to English Heritage — but only if it can match the £850,000 offer from a private buyer.

Save Britain's Heritage says if the house is sold to the unnamed buyer, "Edward James' unique creation is at immediate risk". The contents of the house, which includes furniture by Dali, would be split up and sold by Christie's in June.

But the rescue package depends on English Heritage agreeing that saving Monkton House is part of its role. Some commissioners have argued that English Heritage should only acquire houses which are demonstrably in danger.

If English Heritage does agree to back a feasibility study, initiated by Save, which says Monkton can be opened to the public, it will be asking the National Heritage Memorial Fund to put up £1.1 million for the house and a limited list of contents.

Save president Marcus Binney said: "This is the tightest and most difficult deadline the heritage movement has ever faced."

Save president Marcus Binney said: "This is the tightest and most difficult deadline the heritage movement has ever faced."

Save president Marcus Binney said: "This is the tightest and most difficult deadline the heritage movement has ever faced."

Save president Marcus Binney said: "This is the tightest and most difficult deadline the heritage movement has ever faced."

Save president Marcus Binney said: "This is the tightest and most difficult deadline the heritage movement has ever faced."

Save president Marcus Binney said: "This is the tightest and most difficult deadline the heritage movement has ever faced."

Save president Marcus Binney said: "This is the tightest and most difficult deadline the heritage movement has ever faced."

Save president Marcus Binney said: "This is the tightest and most difficult deadline the heritage movement has ever faced."

Save president Marcus Binney said: "This is the tightest and most difficult deadline the heritage movement has ever faced."

Save president Marcus Binney said: "This is the tightest and most difficult deadline the heritage movement has ever faced."

Save president Marcus Binney said: "This is the tightest and most difficult deadline the heritage movement has ever faced."

Save president Marcus Binney said: "This is the tightest and most difficult deadline the heritage movement has ever faced."

Save president Marcus Binney said: "This is the tightest and most difficult deadline the heritage movement has ever faced."

Save president Marcus Binney said: "This is the tightest and most difficult deadline the heritage movement has ever faced."

Save president Marcus Binney said: "This is the tightest and most difficult deadline the heritage movement has ever faced."

Save president Marcus Binney said: "This is the tightest and most difficult deadline the heritage movement has ever faced."

Save president Marcus Binney said: "This is the tightest and most difficult deadline the heritage movement has ever faced."

Save president Marcus Binney said: "This is the tightest and most difficult deadline the heritage movement has ever faced."

Save president Marcus Binney said: "This is the tightest and most difficult deadline the heritage movement has ever faced."

Save president Marcus Binney said: "This is the tightest and most difficult deadline the heritage movement has ever faced."

Save president Marcus Binney said: "This is the tightest and most difficult deadline the heritage movement has ever faced."

Save president Marcus Binney said: "This is the tightest and most difficult deadline the heritage movement has ever faced."

Save president Marcus Binney said: "This is the tightest and most difficult deadline the heritage movement has ever faced."

Save president Marcus Binney said: "This is the tightest and most difficult deadline the heritage movement has ever faced."

Save president Marcus Binney said: "This is the tightest and most difficult deadline the heritage movement has ever faced."

## Monkton verdict imminent

A DECISION on the future of Monkton House, the surrealist home of Edward James, will be decided this week after crucial meetings with English Heritage and the National Heritage Memorial Fund.

The trustees of the Edward James Foundation have offered the house to English Heritage — but only if it can match the £850,000 offer from a private buyer.

Save Britain's Heritage says if the house is sold to the unnamed buyer, "Edward James' unique creation is at immediate risk". The contents of the house, which includes furniture by Dali, would be split up and sold by Christie's in June.

But the rescue package depends on English Heritage agreeing that saving Monkton House is part of its role. Some commissioners have argued that English Heritage should only acquire houses which are demonstrably in danger.

If English Heritage does agree to back a feasibility study, initiated by Save, which says Monkton can be opened to the public, it will be asking the National Heritage Memorial Fund to put up £1.1 million for the house and a limited list of contents.

Save president Marcus Binney said: "This is the tightest and most difficult deadline the heritage movement has ever faced."

Save president Marcus Binney said: "This is the tightest and most difficult deadline the heritage movement has ever faced."

Save president Marcus Binney said: "This is the tightest and most difficult deadline the heritage movement has ever faced."

Save president Marcus Binney said: "This is the tightest and most difficult deadline the heritage movement has ever faced."

Save president Marcus Binney said: "This is the tightest and most difficult deadline the heritage movement has ever faced."

Save president Marcus Binney said: "This is the tightest and most difficult deadline the heritage movement has ever faced."

Save president Marcus Binney said: "This is the tightest and most difficult deadline the heritage movement has ever faced."

Save president Marcus Binney said: "This is the tightest and most difficult deadline the heritage movement has ever faced."

Save president Marcus Binney said: "This is the tightest and most difficult deadline the heritage movement has ever faced."

Save president Marcus Binney said: "This is the tightest and most difficult deadline the heritage movement has ever faced."

Save president Marcus Binney said: "This is the tightest and most difficult deadline the heritage movement has ever faced."

Save president Marcus Binney said: "This is the tightest and most difficult deadline the heritage movement has ever faced."

Save president Marcus Binney said: "This is the tightest and most difficult deadline the heritage movement has ever faced."

Save president Marcus Binney said: "This is the tightest and most difficult deadline the heritage movement has ever faced."

Save president Marcus Binney said: "This is the tightest and most difficult deadline the heritage movement has ever faced."

Save president Marcus Binney said: "This is the tightest and most difficult deadline the heritage movement has ever faced."

Save president Marcus Binney said: "This is the tightest and most difficult deadline the heritage movement has ever faced."

Save president Marcus Binney said: "This is the tightest and most difficult deadline the heritage movement has ever faced."

Save president Marcus Binney said: "This is the tightest and most difficult deadline the heritage movement has ever faced."

Save president Marcus Binney said: "This is the tightest and most difficult deadline the heritage movement has ever faced."

Save president Marcus Binney said: "This is the tightest and most difficult deadline the heritage movement has ever faced."

Save president Marcus Binney said: "This is the tightest and most difficult deadline the heritage movement has ever faced."

Save president Marcus Binney said: "This is the tightest and most difficult deadline the heritage movement has ever faced."

Save president Marcus Binney said: "This is the tightest and most difficult deadline the heritage movement has ever faced."

Save president Marcus Binney said: "This is the tightest and most difficult deadline the heritage movement has ever faced."

## Repairs bill spurs calls for more housing cash

PRESSURE on the Government to pump more investment into public sector housing is continuing to build up, spurred by new discoveries of the massive repairs backlog.

This week Birmingham City Council revealed that a survey of just some of the liabilities placed on the council by the 1985 Housing Defects Act will require the authority to spend around £30 million.

That is to fulfil its obligation to buy back Boot and Parkinson

type houses, and the soon to be designated Smith-type houses. In all, the council has 3,040 houses in these groups.

But that multi-million pound pay-out will simply be repurchasing the problem, and requiring money the authority has still to get. The survey has shown that the real problem will then begin — paying to knock down and rebuild the housing. The council's architects and other technical officers have found that repairs would cost even more.

The council's appeal for more central Government funds will have to go into the pot with the

likes of Sheffield, which has also just submitted another bid for more cash — this time to spend on private housing.

The city council wants to replace the existing individual grant system for private home improvements and replace it with a block improvement programme in six housing action areas, facilitating major developing schemes.

A report on private housing in the city, called "Taking Stock", reveals that the total needed to bring all private housing in Sheffield up to a reasonable standard would cost £600 million.

If the situation is not rectified within 10 years, wholesale clearance might be necessary.

More than half the 80,000 private pre-war homes in Sheffield were built before 1919 and many still lack proper bathrooms and inside toilets.

Present grant-giving systems probably will be unable to cope with the demand and the area improvement programme would be an easier way to administer funding.

A survey of housing in London shows 22 per cent of homes are in serious disrepair, needing more than £5,000 spent on them, the Association of Metropolitan Authorities said this week.

## Council rejects 'awful' scheme

WOLVERHAMPTON architects The Mason Richards Partnership have had their design for a Barratt housing development in Chipping Norton rejected by West Oxfordshire District Council.

The mixed development of 59 terraced, semi-detached and detached homes was rejected for not keeping to the local vernacular.

Councillor Peter Burrett said: "The proportions of these houses are awful and need improvement."

A spokesman for Barratt said it would write to the local authority expressing its concern at the rejection and requesting further meetings. It would also lodge an appeal with the DoE.

## Save looks for new Saltaire mill option

Save Britain's Heritage has launched a campaign to find a new use for the great mill at Saltaire, one of the most important model industrial settlements of the Victorian era.

Save says the mill, designed by Yorkshire architects Lockwood & Mawson in 1853 for Sir Elias Salt, forms the centrepiece of the village, which has now been absorbed into Bradford.

It held a seminar last week at which options for the 11-million structure were discussed. It closed only two months ago.

Save considers the mill could be used for housing, workshops and leisure facilities, but central and local government help will be needed.

Saltire was built on a green-field site at the height of West Yorkshire's 19th century industrial boom.

The mill consists of the 45,000sq m Old Mill, which the heritage group is more optimistic of saving, and the slightly-later New Mill, which closed first and is now derelict.

## RIBA programme highlights

THE highlight of this summer's programme of RIBA events should be the 1986 convention, entitled "City Wise: complexities and contradictions in urban life".

Speakers include Rob Krier, Ken Livingstone, Clive Thornton, James Gowan, Rem Koolhaas and comedian Alexei Sayle. The convention takes place from July 10-12.

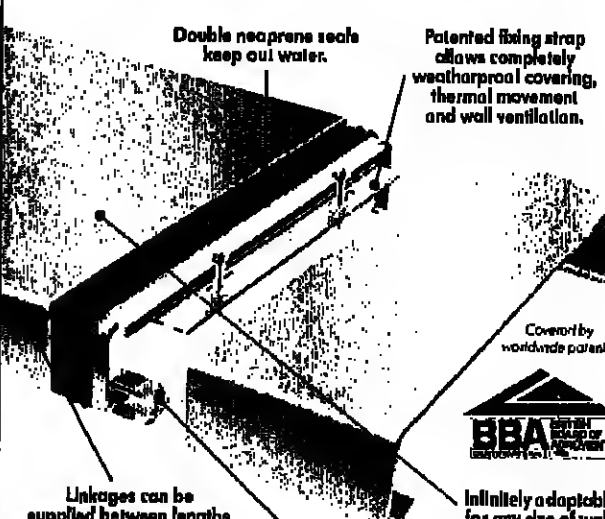
Earlier, Mario Bellini, architect and product designer, gives the fourth lecture in the AGB/Westbourne-sponsored series on interior design on May 13.

On June 3, Professor Franz Schulze will deliver a centennial appraisal of Mies van der Rohe, and on June 10 and 11 David Owen MP and Observer editor Donald Treford will speak on "Corridors of Power: an environmental perspective".

Other lectures include Adrian Forty of the Bartlett school on Taylorism and modern architecture, on May 20.

A panel of distinguished female architects led by Jane Drew of Fry Drew Knight & Creamer will lead a discussion on women in architecture on April 29.

## ALIFABS ALUMINIUM COPING. FULL OF HIDDEN STRENGTHS.



The Alifabs aluminium coping system. Unique. Stylish. Effective. The only coping with an Agrément Certificate.

It gives the ultimate protection for parapet walls, columns and piers.

Unique hidden fixings mean the external aluminium skin is completely unpunctured by screws or bolts, giving complete weather resistance.

Impermeable and indestructible, the Alifabs coping system gives a completely clean stylish finish, that's unrivalled in use.

Sophisticated extruded aluminium design provides an extremely stable and maintenance-free coping.

Alifabs coping. Full of hidden strengths.

**alifabs**  
ALUMINIUM COPING

Forsyth Road, Sheen, Surrey TW20 1SA.  
Tel: Woking (041 621 5744). Telex: 859571 (Alifabs G).

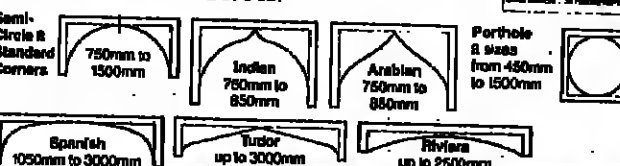
## Discover the secret of perfect curves

Now in exterior stainless steel



Here's another first from Truline! Introducing our NEW arch-frame design — to make perfect curves easier, faster, better. It has a unique, 3-D curved pressing with solid bead, to make arches far more accurate and far quicker to plester.

What's more, Truline have by far the biggest range of pre-formed arch frames in the UK. BBA approved, naturally. Send the coupon and discover our secrets.



Please send me details on the latest Truline arch-frames.

Name \_\_\_\_\_  
Company \_\_\_\_\_  
Address \_\_\_\_\_

Postcode \_\_\_\_\_  
Truline Building Products Ltd.,  
Albert Road, Buckhurst Hill,  
Essex IG8 6BH, UK.  
Tel: 01-604 6029

**truline**  
pre-formed arch-frames  
The shape in rooms to come

Enter 13 ON EXPRESS ENQUIRY CARD

## Celotex

go deeper into thermal technology

So now you can



## Build insulation into a thinner cavity wall

Of course, you've got several ways of meeting latest 0.6 U Value levels for external walls. Most involve filling the cavity entirely. Or increasing overall wall thickness. Celotex double-R CW1 is the third way. And it offers you the choice of lower U Values too, at economic cost. Thermal performance is so high that a mere 20mm board thickness achieves you 0.6 U Value without filling the cavity, and with any brick/block cavity wall insulate as you build, the easy way...with Celotex double-R, CW1 available in a range of thicknesses from 20 to 50mm.

double-R

Details and samples from  
Celotex Limited, Warwick House, 27/31 St. Mary's Road,  
London W5 5PR Tel: 01-579 0811.

a Jim Walter company

## Install roof deck and insulation, with one board.

So you're building a flat roof. Just nail Energy-Ply panels to the timber joists, add a weathering system and the job's done. Simple, fool-proof Energy-Ply is the answer to a builders' prayer! The rigid, reinforced 46mm insulation core of famous Celotex double-R has aluminium vapour barriers plus 4mm external grade plywood on both sides. This makes it easier to handle and easier to fix. And with double-R thermal performance working for you, you've met the latest U Value regulations with a single board.

Energy-Ply

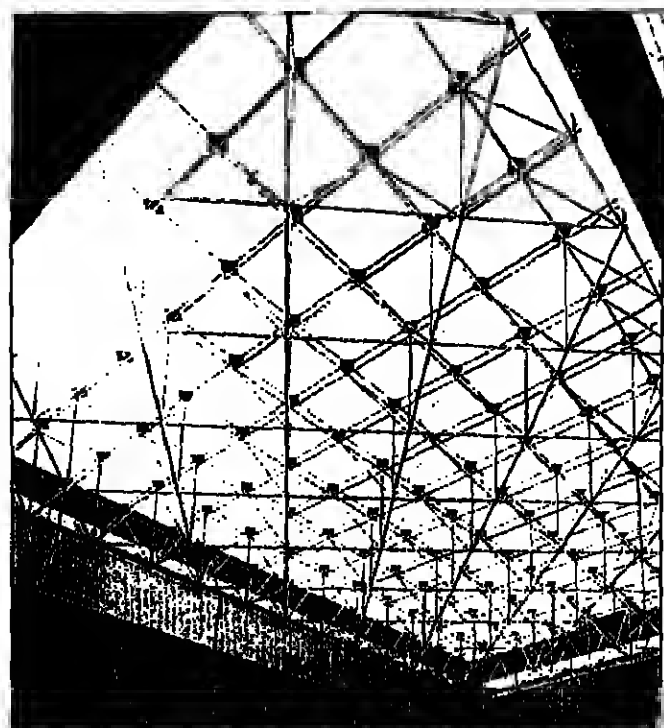
THERMAL  
ENGINEERING  
PRODUCTS FROM...  
TEAM  
Celotex

Enter 7 ON EXPRESS ENQUIRY CARD

Enter 8 ON EXPRESS ENQUIRY CARD

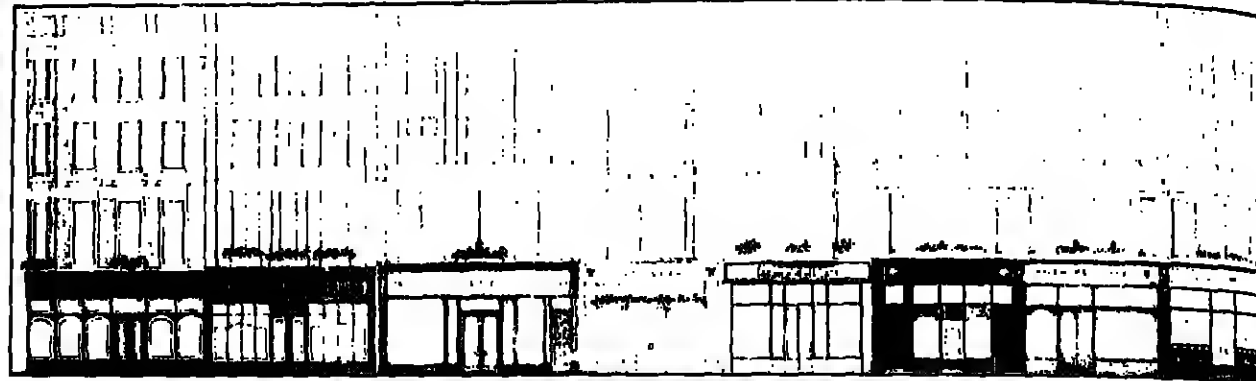


## News in pictures



## Porsche styling

The first double version of the Plamor structural glazing system has been installed at the new Porsche headquarters building, beside the M4 near Reading. Architects Dewhurst Hosiam, assisted by Dennis Page, have used it in a central atrium. Page said it was a good development, but he would have used smaller supporting plates and lighter silicon jointing, on reflection.



## Dublin refurb

Above: Dublin architects Patrick and Moura Shaffrey have drawn up this refurbishment scheme for Henry Street, Dublin's prime retail thoroughfare, showing how the shops on both sides can be upgraded.

Henry Street has significant architectural character and includes 18th and 19th century Georgian buildings and interesting examples of 20th century developments.

"The plan for Henry Street is part of a total plan for Dublin and it may mark the beginning of a new atmosphere and appearance for the city centre," said Patrick Shaffrey.

The scheme was commissioned by the Dublin City Centre Business Association.



## Georgian splendour

Left: Anthony Clark Partnership. Wimpey Construction are involved in one of the most upmarket schemes in the country with a Canning Street conservation project, Liverpool.

So far 24 houses out of about 40 have been restored in their Georgian splendour. The programme will take the project to funding. An 85 per cent grant from English Heritage, the owners' landlords, the associations, local authority, owner occupiers — to bid a scheme.

Extensive repairs involve major renewal of roofs, balconies, details.

## Infill

## Sites and sounds

By David Pearce



## Architects as heroes yet again

IT can no longer be said that architecture is neglected by the national press. There is Amery being authoritative in the FT, Knevit enthusiastic in *The Times*, Gardner eccentric in the *Observer*, all sorts of people being responsible in the *Guardian* and *Sunday Telegraph* to everything stylish in the *Sunday Times*.

With one exception they are youngish and, in varying degrees, aware of nuances — both modern and post-modern. None of them now concentrate on conservation matters, which have increasingly taken a back seat.

Apart from the occasional splash by Stamp or Young in *The Times* (though Young seems to have gone rustic) and the all too rare honeyed prose of Aslett, "heritage" issues seem to be covered by whichever planning, environmental or local government reporter picks up the press release from the desk.

But the case of our architect heroes is otherwise. Although Foster, Rogers and Stirling may not be quite so renowned as Johnson, Graves and Venturi, they are coming up fast on the outside.

Thank goodness the one concerning whose private life the public has been favoured with most detail is the most charming and, indeed, "youthful" (53 already Richard?).

Verily the media treatment of the three is mixed. Stirling, who contrives to be both fat and austere, is not understood at all (and anyway his best building is in Germany). Rogers is loved a good deal more than his Lloyd's building, whereas Foster is loved a good deal less than his Honkers & Shankers bank. Lloyds reviews have been very mixed (when does a vertiginous, glazed light-well become an atrium?), but praise has been ladled on the bank. Even Knevit seems to have been embarrassed by his own starry-eyed treatment of Foster's "masterpiece", so that at the end of his *Times* article he threw in a mild complaint about the lack of interior colour.

What no review that I have seen has tackled are the questions that I wanted answering: was it really only £500m? — much higher figures have been thrown about — and anyway, why build the capitalist world's most expensive edifice in a city due to go red in 11 years? Did the clients bargain for such a tab and what do they make of what they have got?

## Where art thou Arnold?

THE Five Towns, discounting the vaguely romantic aura attached to them by Arnold Bennett, constitute in general a depressing urban desert. A century ago industrial success was expressed in a handful of proud municipal buildings.

Pride in architecture does not swell in the bosoms of councillors of the successor authority to the former boroughs, namely the city of Stoke upon Trent. Town halls at Longton and Tunstall — both unlisted, though in the first case inexplicably so — the grade II town hall at Burslem and the Queen's theatre there, are all threatened with destruction by council leader Ron Southern. He says of the theatre that it would cost a great deal to bring up to modern standards.

Local preservationists are fighting a rearguard action to save the imposing "local monument" at Longton, which is a hall in the literal sense, the former municipal offices being separate and already demolished, apparently. It is a handsome, stone-built, mid-19th century essay and, though lacking the Baroque exuberance of the hall in nearby Burslem, appears at least of the standard of the late-lamented Kensington Town Hall. A court case — wherein it has been argued that, since the hall was erected by public charitable subscription, it is not the council's to demolish — has been deferred.

## More on riverbuses

ALTHOUGH one of the best known and cleanest of the world's rivers, the Thames carries a desirous number of commuters or tourists. In 1984 there were 3½ million "passenger movements", less than the underground copes with in two days.

Despite an optimistic report in the *Sunday Times* last month, the Thames Water Authority is not about to launch a bus service, such not being in its remit. Having inherited nine piers and the barrier from the Greater London Council, the authority does, however, hope to encourage commercial operators to start such a service.

Problems in the past have included the lethargy of present river operators (there's a gentle word) and the discouragement of the considerable investment required to provide a regular service by the licensing system which has been on an annual basis up to now. A regular and timetabled service, perhaps with extra boats available for tourist peaks, is a *sine qua non*.



The Thames... an under-used waterway.



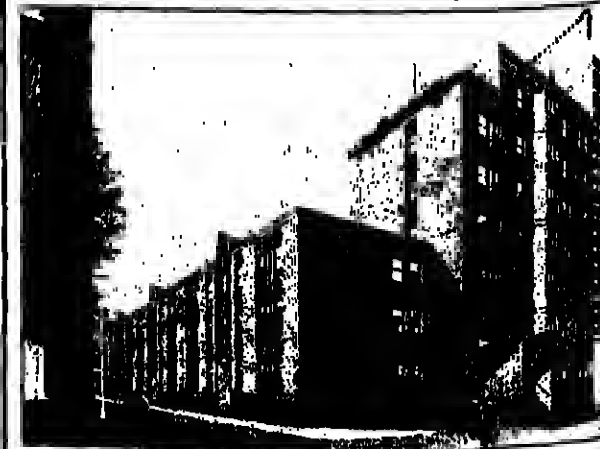
## Variety show

Two jobs reflecting the huge variations in type of work for the traditional mixed practice, in this case Tooley & Foster.

Above, the recently opened maintenance hangar for Monarch Airlines at Luton Airport, where T&F acted for Monarch in preparing the way for a design and construct contract, cutting the pre-contract period because of time shortage. This involved assembling a detailed brief, obtaining planning and Building Regulations permissions and Civil

Aviation Authority approval. Elliott with the contract, and painted Pavell & Wilson as well as Tooley & Foster, completed a development block of offices fronting Victoria Street, London SW1. A court case — wherein it has been argued that, since the hall was erected by public charitable subscription, it is not the council's to demolish — has been deferred.

Below, a proposal for 29 Flax Old Pye Street, London SW1, completes a development block of offices fronting Victoria Street, London SW1. A court case — wherein it has been argued that, since the hall was erected by public charitable subscription, it is not the council's to demolish — has been deferred.



## A peak of success

The topping out ceremony for the Fitzroy Robinson Partnership development was performed last week.

The development with its unusual A-shape configuration, is being built by Trollope & Colls and will comprise 8,300 sq m of office space over the Fitzroy Robinson station.

Building commenced in August 1984 and the development is scheduled for completion in spring 1987.

## BUILDING DESIGN

Building Design is published twice a month by Morgan Graham, House, Central, 101, Strand, London WC2R 0JH. Tel: 01-252 7771. Fax: 01-252 7772.

## The Editor's Comment



## Portland Place politics

THE ambiguous nature of the motion allowed the RIBA establishment to wriggle off the education hook at the special general meeting last week. Inviting people to support a motion confirming the virtues of the Institute's charter is rather like asking the General Synod to confirm that it thinks sin is a bad thing. The near-unanimous vote does not remove the problem, since sooner or later the institute will have to take a stand on closures. What would its attitude be, for instance, if it were proposed that architecture should no longer be taught at universities, but should go exclusively to the polytechnics? The real objection to its veneration on closures so far is the way it leaves the way open for further "surgery" by Government, which believes it is dealing with a tame pox.

It is surely time that Council debated a motion along the lines of: "This Institute opposes the closure of the NELP and Huddersfield schools because the criteria for the closure recommendations are irrational and objectionable. It calls on the Government to open discussions over the basis for any future review of architectural education and affirms its wholehearted support for every architectural school in Britain." Even if the Government appears intent on closing at least two schools, this is no reason to give in (look at what happened to Sunday trading). And it is not too late for council to refurbish the tarnished image of the institute in the eyes of the schools. Having said all this, it is also time for the institute to take a more direct interest in what is being taught in the schools, and to consider what will be required of qualifying architects in the next two decades. This is easier to achieve coming from an institute which shows it has the interests of the schools at heart, and not its own estimates of how the professional numbers game is going to turn out.

On the subject of fence mending, the powers that be might also consider whether it is wise to pick fights with people it should be supporting, and who should be expected to give support in

turn. Rod Hackney's ambition to become president of the International Union of Architects is being opposed on flimsy grounds: eg he is not a president of his national institute. If Hackney has been good enough to be given British support up in the level of UIA vice-president, he is certainly good enough to get backing for the job. Indeed, he would make a refreshing change from certain unmemorable recent past-presidents.

It is also time that some of the unbelievable bickering between Portland Place and community architects was ended. It takes two to start an argument, and the community lot are not entirely blameless. But the institute should be big enough to stand back and support people who want to get things done — both internally and externally.



Now, we can offer you a more sophisticated product. All United States structural timber carries an authorised grade mark from certified agencies. A symbol of quality that is your assurance of performance and reliability. Use the reader enquiry service for more information about United States timber.

Southern Forest Products Association  
Western Wood Products Association  
69 Wigmore Street London W1H 9LG England  
Telephone 01-486-7488/9 Telex 262936 SFPA UK

ON EXPRESS



# HALL & TAWSE

## a new force in construction

When four well-regarded names in construction pool their many skills into one integrated unit... you have a force to be reckoned with.

Resources to bid confidently for the biggest projects... skills and hard-won experience to handle any challenge in building and civil engineering with true professional ability. Hall & Tawse is this new name, linking the construction interests within the powerful Aberdeen Construction Group. Each brings its own expertise. Impressive civil engineering achievements from:

William Tawse... over 100 years' building experience from Alexander Hall... contract building expertise from Hall and Robertson... the picture completed by Reeme Construction with their unique background in public sector building.

So now, one name brings you all the many disciplines needed to offer a complete construction package, nationwide. Big enough to tackle multi-million pound contracts. Flexible enough to offer good service to an individual property owner. Soon you'll be seeing 'H&T' on site boards, far and wide.

### HALL & TAWSE CONSTRUCTION LIMITED

Southern Region: Botley Road, North Baddesley, Southampton SO62 9ZG. Tel: (0703) 732151. Telex: 477971.  
Northern Region: New Anguistid, Westhill, Aberdeen AB3 6QP. Tel: (0224) 742222. Telex: 738955.  
Aberdeen: BOLTON, BROXBURN, ELGIN, FRASERBURGH, INVERNESS, GLASGOW, ALOUGH, SOUTHAMPTON, STORNOWAY, THURSO.

Member of Aberdeen Construction Group plc.



# Perspective

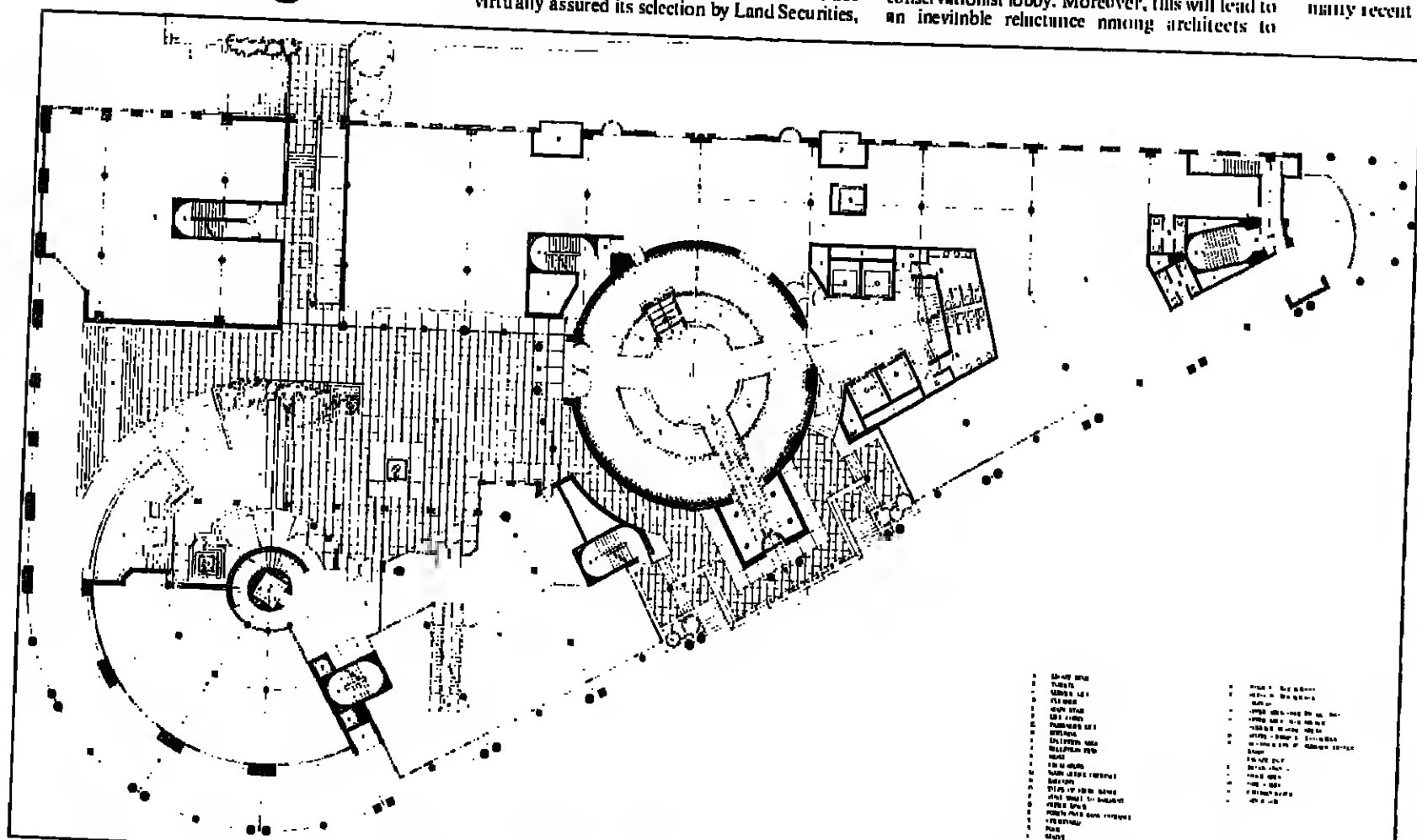
## More Grand Buildings

THE brief exhibition of the nine second-stage entries for the Grand Buildings competition, at the RIBA until 12 noon tomorrow, offers an intriguing glimpse of what might have been.

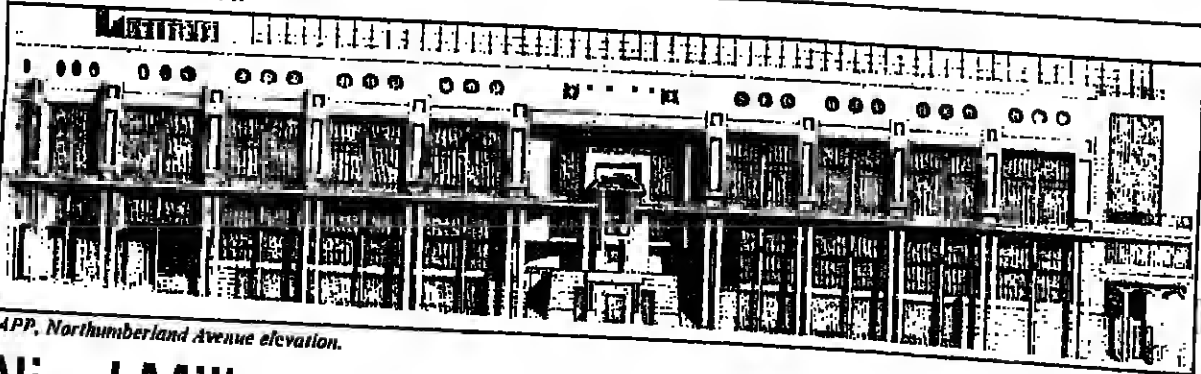
Siddell Gibson's winning reconstruction of the existing building is certainly a competent exercise, but its inclusion by the jury in the last three virtually assured its selection by Land Securities,

given their long struggle to develop the site. The outcome is disappointing for several reasons. First, an important opportunity to contribute a fine building of our time on a prominent site in the capital has been lost. Secondly, the largest architectural competition ever held in this country, one in which many worthy proposals were put forward, has ended in capitulation to the conservationist lobby. Moreover, this will lead to an inevitable reluctance among architects to

undertake future competitions for their time. It is also surprising that the nine finalists apparently failed to provide a detailed client's requirements for the competition — which was largely well-served by a major error in a developer's presentation — a poor reflection on a profession the needs to assert a confident public face, many recent setbacks.



Courtyard layout — level 1.



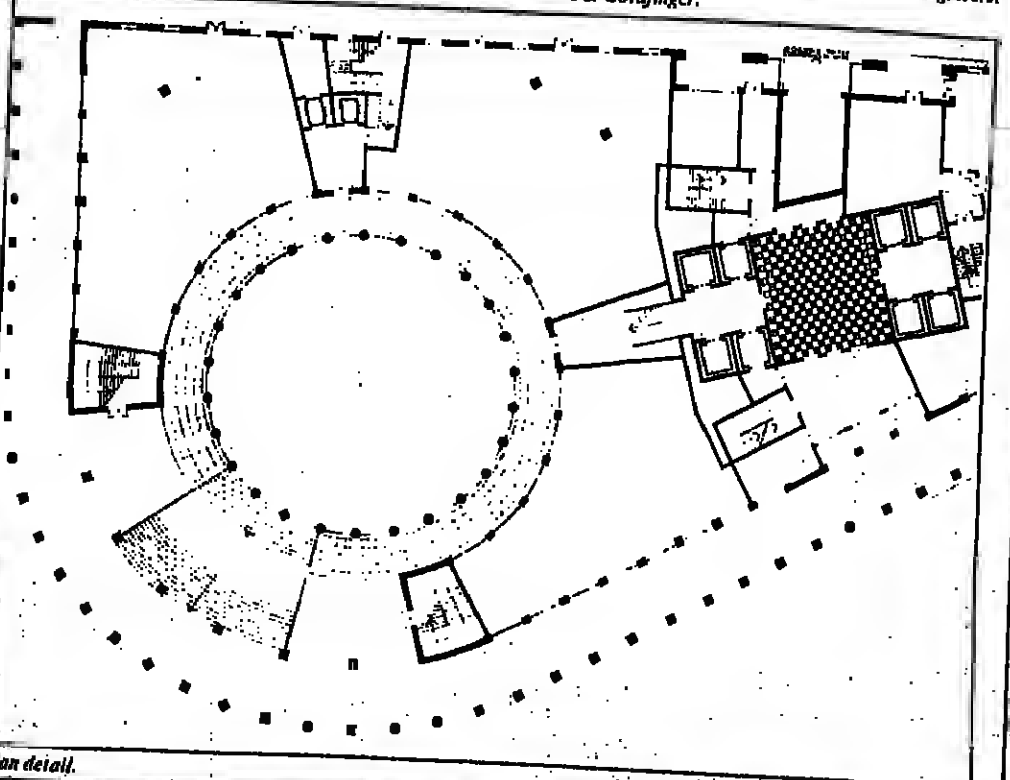
APP, Northumberland Avenue elevation.

## Nigel Mills and Ferenczi Design

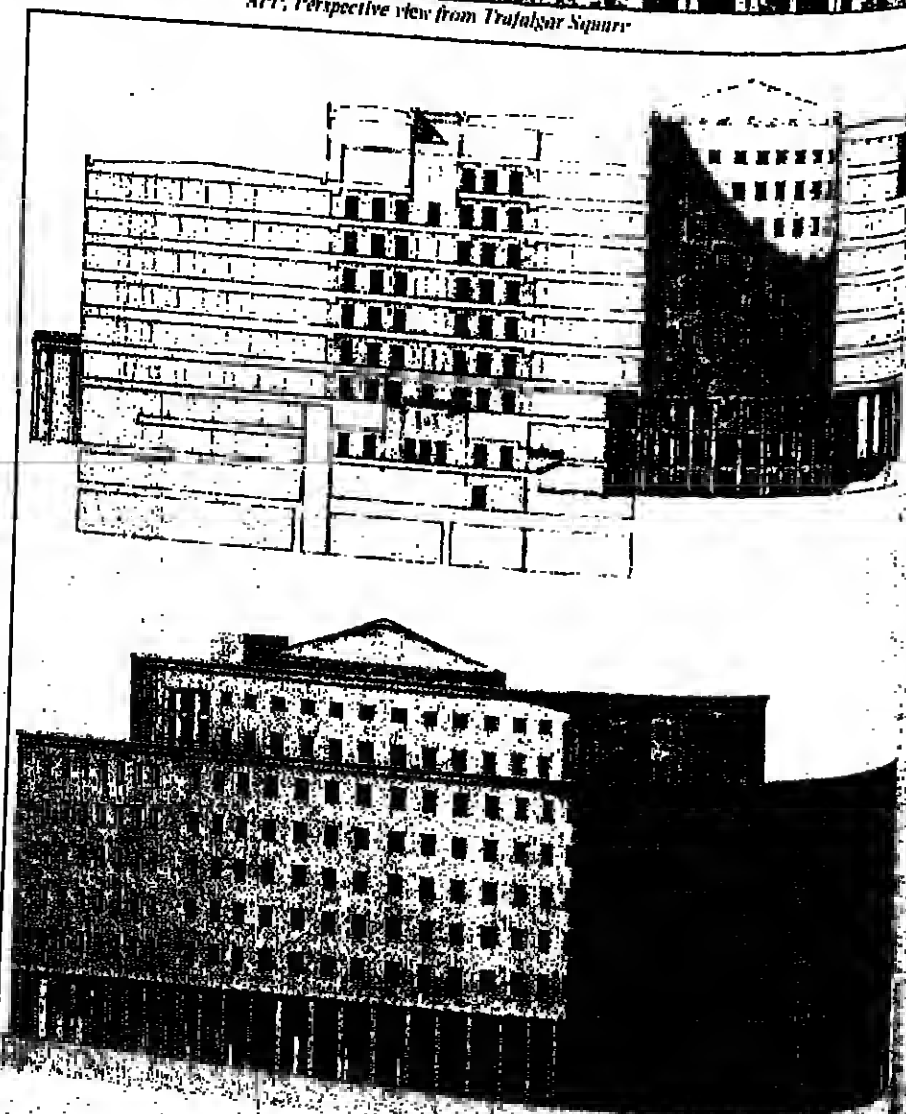
"A new building is proposed that respects the history and the importance of this nationally significant place. It is new spaces and new to the building's public. Building is required to ensure the order, regularity and clean finish required of a central London office building. Conceptually, the design seeks an architecture of truth, a truth seen in the light of economy, practical reality and aesthetic soundness. It seeks a reality and appearance of an essential architecture; an architecture of permanence, solidity, durability and tectonic logic, an architecture that is clear, strong, tranquil and refined and above all reasonable and simple in its composition and external expression — a totality where whole and detail are one."

"Contextually, the building is part of the backcloth of Trafalgar Square, not a prime object. It is the place from which the view is taken; rarely, if ever, the object viewed. The height and perceived volume of the existing Grand Hotel evoked. Within the theme of minor backcloth it has a detailed and subtle role."

Design Team: Nigel Mills, Clive Knights, Russel Light, Philip Lee, drawing assistant, Charles Pignatelli. Quantity surveyors: Thomas, Lambie & Partners. Structural engineers: Marshall Bunting Assoc. Services engineers: Dale & Goldfinger.



Plan detail.



APP, Perspective view from Trafalgar Square.

Trafalgar Square elevation and longitudinal section.

## Scorpio



## President strikes back over NCAF

NO sooner had my story appeared last week about the National Community Aid Fund conference on community architecture, cutting across secret plans by RIBA for their own, than all the president's men rallied round to support him.

## Scene and heard

Having informed NCAF organiser Jim Sneddon of the huge cost of hiring Portland Place for the event some months ago, the offer suddenly emerged of not only free accommodation, but also substantial financial benefits for bringing the conference back into the fold.

But if all 20 members of the fund were to be involved, RIBA's contribution would be only one-twentieth. You get the drift.

Such leverage fell on deaf ears, I gather, and the conference proceeds apace outside the controlling interests of the institute.

Meanwhile, the organisers of the International Year of Shelter for the Homeless are feeling understandably peeved at the suggestion that they have endorsed the RIBA's conference, when in fact they've backed Sneddon's. Time for a truce, I'd say.

## The Czech brain drain

ARCHITECTURE'S female Excel, the glorious Eva Jirina, has been tempted to the West Coast of America by the prospect of real commissions for real buildings.

Traumatized by the prospect of more flats for Joseph and his interiors for trendy Knightsbridge shoppers, she's joining the designer-talent drain for the second time.

Her temporary residence in Britain, working for the GLC architects department, became permanent in 1968, when the Russian tanks moved into her native Czechoslovakia. But I suppose it is a sign of the times when someone of her abilities is forced to go abroad for work. Let's hope it's also temporary.

At least she went with a bang: the £2,000 fee paid in total to the consultants on her Westminster Pier winning entry was invested in a party at Sloane Street's basement hostelry L'Express.

## A wolf on the loose

WATCH out all women in the vicinity of the Lloyds building. If the revelations of Richard Rogers' sexual vigour have not been frightening enough, allow me to introduce the latest ladykiller working on the job — Jacques Grange.

He, you may recall, is the interior designer appointed to fit out the directors' suite, against Rogers' preference for Eva Jirina, or some directors' pet choice of Max Glendinning.

The shroud of mystery cloaking this elegant Frenchman has been ripped away in *Le Figaro*, where he is nominated as a candidate for a proposed new "ministère de la séduction" based on his intelligence, style and smouldering good looks.

## 10 years ago

RIBA Councillors were rather good when they discussed architecture rather than institutional affairs last week. John Wells-Thorpe declared conservation zones were "architectural no-go areas", while William Whitfield warned against the increasing influence of accountants and quantity surveyors on building. "There is a difference between economy and greed," he declared.

*Building Design*, April 23, 1976.

# Statistics



## Lincpac Lincpac or Lincpac

as often as you like for the fast, cost effective answer.



Lincpac buildings comprise factory built modules designed to provide permanence, economy, speed and flexibility without sacrificing attractive working conditions and good looks. Look at the way Lincpac satisfies most commercial and light industrial needs.

- Costs can be as low as £120 per sq metre.
- Built to high specifications.
- Can be fitted to individual requirements.
- Joined side to side, in any number, and one end to one end, virtually any interior layout can be provided.
- One or two storeys with interior staircases.
- Can be extended at any time.
- Maintenance free Colorcoat steel cladding or can be built to receive any cladding.
- Robust structure, with solid glulam timber or steel lattice roof beams and rigid floor, allows relocation of modules without dismantling.

Construction in dry factory conditions allows tight quality and cost control to be maintained and delivery achieved within weeks. Lincpac is then installed onto pre-prepared foundations quickly and easily.

Send off the coupon, or contact us direct for full colour literature giving examples of buildings we have completed with Lincpac, and a specification leaflet.

Please send me your colour literature AD/AL

Name \_\_\_\_\_

Position \_\_\_\_\_

Company \_\_\_\_\_

Address \_\_\_\_\_

Tel. No. \_\_\_\_\_ Telex No. \_\_\_\_\_

## Build the Hallam way Vic Hallam

Vic Hallam PLC  
System Building Division  
Head office:  
Langley Mill Nottingham NG16 4AN  
Telephone Langley Mill (0773) 716141  
Telex 37426  
A member of the May & Hassell Group



## Mediocre home for Drawings

From Margaret Richardson  
I WOULD like to comment on the plans you recently published for rehusing the Drawings Collection within the main RIBA building.

The intention is to fit the collection into No 68 Portland Place, the building adjoining the 1934 headquarters. RIBA members and the interested public should realise that the collection will not be housed in Wormum's splendid and institutional rooms but in the next-door house, which was built in 1958 specifically to provide offices for a growing bureaucracy.

No 68 Portland Place is a mediocre building, with low ceilings and small regular windows. It does not even make for ideal office accommodation, let alone for prestige rooms to house what is virtually a "national" collection of architectural drawings. No amount of gutting, tasteful grey paint or red hi-tech door handles will disguise its inadequate architecture.

The collection needs a mix-

ture of spacious display and study rooms and functional storage areas. It collects paintings and models as well as drawings — and sculpture, drawing instruments and office furniture — all highly visual items which need a sympathetic background.

Secondly — and this is a serious point — No 68 Portland Place only offers the collection enough space for expansion for another five to eight years. By about 1995 it would be severely restricted. It is a growing collection; it believes in acquiring the best examples of architecture in each decade to represent the best architects in every field. Sometimes it acquires a complete office archive, sometimes all the drawings for one scheme. That is what it ought to be doing, but it will need space and room to manoeuvre.

Thirdly, if the collection returned to No 68 Portland Place it would lose the separate identity which is so important for any museum today. To attract sponsorship is a tricky

thing. Would potential donors give money to a collection that was a mere department of a library — just "rooms off" a main building? Could its reputation as a great international collection survive under these circumstances?

I fail, however, fully understand why the RIBA wants to bring the collection back to Portland Place and I have always supported the idea of an architecture centre. It needs — obviously — to display the visual assurances of its past and to hold regular exhibitions of quality. But it could do that without spending £2 million and without "bringing the drawings back". It could hang the drawings all over the building; it could even designate one of its committee rooms (for example, the South Committee Room) as a modern collection and store and display 20th century drawings and models — decked out in best Ungers style. All this could be done now.

Finally, if the council cannot find the space to give the Drawings Collection a worthy setting at Portland Place, it should explore other more sympathetic venues — either on the South Bank or at Portman Square itself. The great Adam house next to 21 Portman Square will be available soon when the Courtauld Institute

moves to Somerset House. If given the independence and backing it deserves, the collection could become a complementary part of the architecture centre planned for Portland Place and a real credit to the institute and its members.

Margaret Richardson  
London NW1

## Parasitic speculation

From Mario Maestranzi  
ONE has some sympathy for architect/developer John Davison (April 11). His design for 10 flats on a site in Hertford failed to receive planning consent on the grounds of over-development, so he sold the site off at a profit, with permission for eight dwellings only.

It must have seemed very fishy to him and extremely annoying to discover later that the new developers managed to obtain consent for 10 flats when they submitted an apparently crummy scheme prepared by technicians. The Ombudsman was called in and he was right to tell East Hertfordshire District Council to apologise for its daft inconsistency.

One has no sympathy at all, however, for Davison's claim to recompense for loss of development value and it was a relief to

read the Ombudsman did not support such a claim. It seems the second-developers, with their second-rate scheme, resold the site for £40,000 profit and it was part of this increased increment that Davison wanted in his pocket: it was not enough that he had already made a profit earlier, on the increased site value, when his development company sold off the land.

This small incident illustrates the easy money that is made in land transactions when planning consent releases the inherent value in a site. But the figures involved are peanuts compared with the deals being made in the South-east, where the cost of land currently represents up to 40 per cent of the sale price of dwellings and, predictably, that percentage will increase as mortgage rates come down this month.

One hopes, some day, the climate of the times will shift so that we shall want to install a government which has the strength to tackle the virtually irresistible vested interests in land, "who grow richer in their sleep without working, risking or economising".

We may then see legislation enacted to get rid of the most damaging parts of current fiscal policies with their disincentives and waste. Let them be replaced by a heavy tax on land values so that the parasitic business of

land speculation is choked.  
Mario Maestranzi  
London N10

## Stopping the fire hazards

From Michael McCafferty  
MALCOLME Gordon's "Stopping the rot" in frame buildings (April 11) succinctly yet comprehensively outlines the problem of rot in timber-frame buildings. But what about stopping fire?

In relation to potential hazards in timber-frame buildings over recent years, I have many walls to ponder. Some have not, have vertical (as well as horizontal) fire stops, some not; some have half-burnt resistant doors in kitchen living rooms, some have some have self-closing doors in the kitchen and living rooms. Some have not.

The last two most notable additions are considered necessary by some to reduce the potential of flash fires, or spontaneous ignition of a fire away from the source; a fire, a potential fire; highly insulated, low thermal capacity dwellings. Michael McCafferty  
Derry  
Northern Ireland

## Misappliance of science

From H I Meyer  
I MAINTAIN and will continue to maintain that Alice Coleman abuses the scientific method in precisely the same way as the judge did in the after-dinner story to "prove" that the French Revolution was caused by the habit of giving children three names.

This 19th century judge reasoned that since Charles James Fox, Richard Brinsley Sheridan and Theobald Wolfe Tone were all radical Republicans and revolutionaries, and since William Pitt, Edmund Burke and John Scott were all eminent Conservatives and monarchists, the practice of giving children three names would turn a whole generation into Jacobins.

But Ms Macaulay went on to say: "If the learned author of the theory about Jacobinism had enlarged either of his tables a little (my emphasis) his system would have been destroyed. The names of Tom Paine and Wil-

liam Wyndham Grenville would have been sufficient to do the work."

All I was attempting to do in the experimental method of Lord Bacon was to "enlarge the tables" a little in poor Alice's restaurant. I drew her attention to the facts of crime, vandalism and destruction outside the tables she has limited herself to. I am then berated for "enlarging myself with three cases only, which are too few to make an impact".

Impact? I refer Coleman to the recent report of the Islington Borough Council on "Crime in Islington", in which, as featured in a recent BBC1 "Panorama", no correlation was established between crime, vandalism and housing design and location. If anything, burglaries seemed more prevalent in the better neighbourhoods. Rural crime is another example that would seem to have little to do with housing design. Indeed, an

interesting theory or hypothesis in crime correlation might be to table the extent of crime to the proliferation of motorways and the development of the car. Again, where does housing design feature?

Coleman cites, once again, Hunt Thompson's Lea View Estate. This prior example is in danger of becoming an "anti-Utopian" totem, what with royal visitations, ministerial praisings and media over-exposure, but by another "happy accident" the Lea View project is something I do know something about, having been at Hackney during its inception and being responsible for the construction of the contemporary architecture (ergo Utopian?) rehabilitation of Wigan House directly adjacent to Lea View.

I could construct some very interesting tables for my annex to Alice's restaurant of "Design disadvantage theory". My tables would deal with some real variables, like political action, the involvement of DoE "enablers", funding limits and rate-setting priorities, which submit are the real determinants, per Coleman, of the inner-city council house design process.

The appointment of Clegg Barr to the DoE in the early

1980s and the subsequent implementation of the ICYI "east-wards" and the augmented subsidies for high-rise flat access blocks has more to do with the disasters of inner-city housing than all the whims of "Modern Movement" urbanism and its arrogant self-esteem in squandering wealth in building doctrinaire environments", so unscientifically and so emotionally heretized by the professor of land use at King's College.

I cannot believe that even the slightest touching on real social problems, which I have endeavoured to highlight in my criticism of Coleman's work, can do harm to any rightly conceived scientific project, but if I have even enabled some people to question the wisdom of tackling massive social problems by emitting litter, graffiti, vandalism and excrement, my work is done.

H I Meyer  
London SW6

## Save us from amateurism

FROM CEDRIC PRICE  
SOMEONE must rescue Save from its staggering amateurism and slipshod behaviour (April

11). My quite detailed proposals for Hampton Court have, for obvious reasons, never been released, nor has anyone from Save ever approached this office (why are its spokesmen always anonymous?).

The proposals related only to the many times altered top floor of Wren's south wing, reinstating the Cotton Gallery and the facades, and are based on impeccable first-hand evidence of the fire damage.

Buildings should show their fortunes and misfortunes: this is what history is about. Would Save rebuild Colchilli or straighten-up Corfe Castle?

"Potty" we may be, but not "sloppy".  
Cedric Price  
London WC1

## Practical deficiency

FROM C WYCLIFFE NOBLE  
YOU cannot on the one hand expose in your *infill* column the problems that have emerged by inadequate academic training of students of architecture and on the other hand in the same issue (April 11) highlight the extreme measures taken to select for employment quality appli-

cants, without wondering what has gone wrong.

Many practitioners are bewildered as to why student architects are so ill-prepared to match contemporary requirements when there is abundant so much evidence of unemployment in the design and construction industry.

Unless there is a return to the recognition of an adequate form of training in which the practical as well as academic issues are combined, the profession could well face the disastrous consequences of an increasing workload which cannot be completed satisfactorily with adequately skilled personnel.

To put it simply, when will the RIBA, and indeed your paper, wake up to this issue?  
C Wycliffe Noble  
Surrey-on-Thames

## Letters

Letters should be typed double-spaced on one side of the sheet and sent to: The Editor, *Building Design*, 30 Catherwood Street, London SE18 6QH. We reserve the right to cut or amend correspondence.

## Opinion

# Some felts are more equal than others

I FOUND your Merch "Roofing & Cladding Supplement" most interesting. While I have no quarrel with the sentiments expressed in articles on flat roofs written by various representatives of the manufacturing industry, I would like to redress the balance and contribute some comments on the issues raised, this time on behalf of the users, especially as the article by Martin Thomas refers to one of my articles on the quality problems of flat roof membranes.

I also represent the RIBA on the BSI committee (SAB/1) which dealt with the revision of BS747:1977 *Specification for Roofing Felts* and the inclusion of a new Class 5 of the polyester-based felts. I feel there is a great need for clarification and amplification of the "behind the scenes" problems connected with the revision of this particu-

lar standard.

The first important point of issue is the clear understanding by the designers and specifiers that the revision of BS747 with its additional Class 5 is based on the lowest common denominator of quality of polyester-base membranes. The inclusion of Class 5 felts in the current BS747:1977 does not alter the fact that this class of felts has almost no physical or chemical affinity to other classes of felts, identified as Classes 1 to 4A/B, save for the coating material — "bitumen". Indeed, the chemistry, composition and manufacture of the new generation of base materials for the roofing membranes, starting with Class 5, are so different and diverse in nature that in my opinion they should have a separate BSI Standard.

The "traditional" Class 1 — 4A/B felts could be made by any roofing manufacturer of felt membranes to formulas that have no hidden background of

Jan Sliva puts the architect's case in the debate over flat roofs.

advertising their "new" polyester felts as being "better" than the "old" BS747 types. It was a poor attribute just being "better".

Yet it must be stated that many felts of Classes 1-4A/B have performed quite well when the designer was aware of their limitations, detailed the flat roof design in a "fit for purpose" manner, the felt was laid by a competent and reputable roofing contractor and the weather was ideal. In such circumstances the membrane acted simply as a water shedding "umbrella", without having to take on any — even minute — stresses of the roofing structure.

Thus, with a great deal of luck and a good measure of judgment, such felts could have lasted for quite a long time. But such happy coincidences were often

hard to come by and failures galore occurred.

Unlike the Class 1-4A/B felts, which had uniformly weak base chemistry, composition and production — in general, they were (and are) weak in tension, compression and impact and their "wear and tear" characteristics are so bad that it is hard to comprehend why so many manufacturers were fond of material — the more recent generation of roofing felts based on the chemistry of synthetic fibres have no common or standardised method of composition and manufacture. While it would be perhaps carrying things a trifle far to use the old adage that they are as different as chalk and cheese, in the overall assessment of their claims of performance and reality of their make up, the old

saying could just about fit the bill.

With so many variations on the "polyester" theme, I feel some clarification should be offered to the user in the revised BS747 and I regret that my effort to insert a kind of "health" warning in the "Foreword" of the revised BS747, Class 5, concerned with polyester felts did not materialise.

Nevertheless, I feel that I should quote the passage I originally proposed: "The addition of polyester-base felts to the existing range of BS747:1977 has been prepared to assist designers and specifiers in understanding the basic facts about the polyester-based felts as structural reinforcement to roll-on bitumen membranes. Apart from the standard moss/area ratio under Item 7.2.1 the actual contents, composition and amount of binder vary between Category 1 and Category 2 and these variable factors will accordingly reflect in use of these two categories of polyester felts. The designers and specifiers must assess therefore the relevant requirements of the particular concept of the flat roof design and select the appropriate type of membrane system which is best suited to his design requirements."

The statement was simply a warning to the designers and specifiers that, although it may be claimed by manufacturers that all new BS747 polyester felts are equal, I submit that some are more equal than others. Even the term "some" could be reduced significantly. In other words, the designer of the flat roof structure must do a great deal of homework to seek and find a fit for purpose polyester-base felt. I would venture to say that he must do more advance assessment than ever before.

As to the research work into the best buy, it is my sincere opinion that the time factor, ie the trouble-free track record of the manufacturer, should play the dominant role in any evaluation.

The next stage to follow will

be the analysis of the base of the designer should seek written confirmation from manufacturer through the publisher of the polyester-base felts, as this attribute of composition can make or break the future performance of flat roof membrane. The characteristic of performance will come from a higher and lower binder content. It is also significant to quality of the base (the whether it is made by mechanical needling system, or method spun-bonded system, as indicated in the Class 5 of BS747).

The Class 1, needing no more likely to give better performance due to its content of well and random mat of fibre, thus giving most important properties of the finished membrane of impact and mechanical stresses, recovery after shock and absorption of temperature stresses.

Another important factor that may affect the length and quality of the final product is the purity of the polyester. The best performance polyester felts rely solely on use of "virgin" fibres in production cycle of the fleece, resulting in the finished membrane. Any inclusion of synthetic waste in the fleece production may affect the expectancy of service life and still worse compatibility with bitumen resulting sometimes in delamination. The designers and specifiers are well advised to check the manufacturer on the purity of polyester fleece and purity of polyester fleece.

It must be added finally that the designer is fortunate in significant fact that the polyester-base felts have been back some 15 years. The designer's good fortune is further when one realises that the first type of high performance felts and set the rest of the industry to achieve.

**Difficult to choose the 2D Draughting System to meet your requirements?**  
Now, thanks to VISTEC the choice is easy — CADVANCE, the latest software from a proven product family. The software choice is only your first decision. Which supplier you choose is just as important. VISTEC can supply the complete system to meet your needs. Why do satisfied customers turn to VISTEC again and again? Because INSTALLATION, TRAINING, MAINTENANCE and TECHNICAL SUPPORT are all vital parts of a successful CAD System implementation.

**Facilities planning**

2D Plans, Sections, Elevations, PIDs, Isometric and Perspective Drawings. To create and display conceptual ideas and detail drawing is easy. Drawings can be quickly modified to suit changing requirements.

**Architectural**

The versatility of the software, with its automatic drawing and calculation routines, editing/manipulation functions, symbol library and database facilities, enables complex drawings to be produced efficiently.

**Mechanical**

The versatility of the software, with its automatic drawing and calculation routines, editing/manipulation functions, symbol library and database facilities, enables complex drawings to be produced efficiently.

**Electrical**

The versatility of the software, with its automatic drawing and calculation routines, editing/manipulation functions, symbol library and database facilities, enables complex drawings to be produced efficiently.

**Call now for specialist advice.**

**Vistec**  
Computer Systems Division

Vistec Business Systems Ltd. Vistec House Nottingham Road  
Belper, Derby, DE5 1JQ. Telephone (077 382) 6011.  
VISTEC for Micros · Terminals · Peripherals · Systems · Viewdata ·  
Maintenance · Networks · Software · Training

**Eternit 2000**

Solving your problems for you.

For more Building Products Ltd.  
P.O. Box 100, Belper, Derby, DE5 1JQ.  
Telephone (077 382) 6011.







# Computers

## Cheap systems help the faint-hearted take plunge

from page 14

"Notepad" and "Sketchpad". Specific functions such as drawing register, certificates, A1's etc. are being dealt with by an additional software source (AIMS), though it is quite possible to set these up for yourselves using standard spreadsheet or database programs.

As mentioned above, the great strength of Archaid32 is in user definable reporting. This allows selection of any data generated by the software to be displayed in any format, and selected under specific criteria if required, eg job architect, date of completion, all jobs that are running behind schedule.

The software incorporates a "knock-on" approach to estimating progress on a given job by estimating the percentage deviation from target, and then showing the effect on the particular stage and job as a whole.

The full system (with colour printer) costs just over £4,500, of which £3,210 is the hardware. For additional systems the hardware cost remains the same, but additional software is £520 (for writing and reading) or free (for reading only). Training is an additional £300 for 12 hours spread over three sessions to

help you at critical points along the learning curve, which is surprisingly short.

There are also three further established software programs in this area: Prophet, Tech Computer Office, and Spirex. I have not been able to examine these programs in any detail, but the presence of at least six strong contenders in this area is indicative of the importance of using computers for job costing and resource analysis.

For further information contact: Archaid32: Jane Clark, Applitek, Felgate House, 6 Studland Street, London W6 0JS. 01-741 5411. Arena: Sarah Nicholson, Arena Software Ltd, 3 Royleigh Close, Cambridge CB2 2AZ. (0223) 68354.

Butress: Maxwell Graham, Definitive Computing Ltd, Unit 17, Premier Partnership Estate, The Leys, Brockmoor, Brierley Hill, West Midlands DY5 3UP. (0384) 261 727.

Prophet: Nigel Charlesworth, Charlesworth Computer Systems Ltd, West Mews Calcot Grange, Reading, Berks. (0734) 411 336.

Spirex: Bensasson & Cholmers Ltd, 6 King's Parade, Cambridge CB2 1SJ. (0223) 315 733.

Tech Computer Office: Stuart Beatty, 6 The Green, Richmond, Surrey. 01-940 7182.

UNDOUBTEDLY the first requirement in any office (large or small) is word processing. It has been a mystery to me that there are still very many architectural offices that have not yet come to terms with this most accessible and useful side of information technology.

Perhaps it is the jargon and mystification weaved around computers that has prevented many from taking the plunge, and perhaps others have been prevented by the initial cost — having not directly experienced the enormous gain in productivity that word-processing brings.

This line now all been changed by the meteoric arrival of the Amstrad PCW 8256, which comprises a 256K memory

coupled with an integral 90 character monitor, dot-matrix printer and inbuilt 400K floppy disc drive.

This is not by any means a "cutting-edge" technological product. All the technology it incorporates has been around for three years or more. What is new is the marketing. Simply, it is a triumph of packaging and presentation, where others have pushed forward the technology of the chip, Amstrad have put together a complete word-processing system for less than £400.

It is indicative of the shift in the computer industry that Clive Sinclair has now been effectively bought out by Amstrad, confirming this triumph of marketing and packaging over technology for technology's sake. When asked what processor the

PCW 8235 uses, Alvin Sugar, the managing director and major shareholder of Amstrad, said he did not know. A nice story, but whether true or not it is indicative of a move towards pragmatic solutions — which harness established technology.

The word-processing software, "Locoscript", is easy to learn, and there is a great benefit in having the printer linked to the system from the start — for instance messages (such as "Ball-bar back") indicate precisely the readiness of the printer to print. The printer produces close to "letter quality" print by typing over the letters twice, which makes printing fairly slow. It is easy within the software to change the size and type of character (the font) within a given range and set up "template" files where for instance the heading of a chapter will always be large. The fonts include emphasised, italicised and bold lettering. At present no other printers can be linked into the system (a daisy-wheel is best for presentation purposes), but this may have changed by the time this comes to print.

What is not so easy to understand, largely because of shortcomings in the manual, is precisely how the program stores its data. If you have used early versions of Wordstar the format is recognisable — though the command structure when editing text is far simpler on the Amstrad, which makes full use of "arrow keys" and "pull-down menus". Locoscript is file-oriented, ie a file is set up or loaded in before text is edited. Files can either be set up on disc or in memory, and can be shuffled from one to the other quite simply. A disadvantage of the software is that all editing and file handling operations appear to be separate, which is a discipline one has to learn to accept when buying a word-processing system for £400.

The use of the internal memory "disc drive" is clever — particularly since these machines to date have only one floppy disc drive. The internal drive operates just as if it were a second drive, provided the power stays on (a problem if running the system off a generator, as I was in setting up a system for the Chisholme Institute in Scotland). The Amstrad thus has many of the advantages of a two-disc drive system.

It is worth mentioning the disc drive specially. The reason that such a good drive is found in such a cheap machine is that they are part of a job-lot bought up from a Japanese company that failed with a 3-inch floppy disc micro. Herewith another stroke of marketing flair. It is these 3-inch drives that are found in the Amstrad, together with the special 3-inch floppy discs — which are not the industry standard (3 1/2 inches). A word of warning: buy plenty of spare discs. Nobody quite

knows where other 3-inch discs will come from once the current stock dries up — no doubt. So will ferret around the word computer stock rooms in search of alternatives. Otherwise the sheer success of the system — particularly if it can succeed in the States — will probably encourage the remanufacturers of the 3-inch disc.

The PCW 8256 has just been given the *Sunday Times* Microcomputer of the Year Award (small business and home computers). In addition the new disc drive version has been announced, and there are rumours that there is a hard-disk drive in the offing.

The system runs the CP/M operating system, so theoretically it is possible to have software transferred across.

One difficulty of transferring complex design software is the cost expectancy of the end-user who does not reckon to pay more than 30 per cent of the hardware cost for a piece of software. This attitude is one that will change in time as it realises that a box without software is worthless, and the cheap software (unless addressing a mass market such as word-processing) is of little value.

Although the high street stores sell the Amstrad, I would advise buying from a well-reputed computer retailer (one of the large national stores such as Microworld).

There are better computers and better word processors — but at nowhere near the cost of the new Amstrad.

### Computer events

THE Construction Industry Computing Association (CICA) is planning the following events:

April 28: Purchasing and managing CAD systems.

April 30: Drafting special interest group.

May 15-16: Managing with microcomputers in construction.

May 21-25: Planning with microcomputers.

May 23: Property management and building maintenance.

June 6: Content of computer courses.

June 17-19: Structures '86.

July 6-9: 5th International symposium on the use of computers for environmental engineering related to buildings.

For further details contact: CICA, Guildhall Place, Cambridge CB2 3QQ.

The RIBA Services are running microcomputer software demonstrations at RIBA on Thursday, April 24, Friday, May 23 and Tuesday, June 10. For further details contact: Marian Jani, 01-636 4108.

Get the facts about long life, lighter and wider SECRET FIX ROOFING CLIPFIX 750

European Profiles Limited

BRITISH CLADDING AT ITS BEST  
Llandyfa, Armanford, Dyfed SA18 3UG Telephone 0299 850881  
Kings House, King Street, Bedworth, Warwickshire CV12 5LL  
Telephone: 0203 319721

GLASS AND GLAZING: LET THERE BE LIGHT

**A world of problem solving.**

Glass and glazing technology has moved at the speed of light in recent years. The apparent problems also have to be solved fast. So who moves with the times fastest? Who's willing to dig deeper, work harder and come up with better, more cost-effective solutions? The word SOLAGLAS has been given the go-ahead to help you solve your glass and glazing problems and, what's more, turn them into opportunities.

One solution is to call just one and trouble is solved. SOLAGLAS energy too because our experts can give you the right answer to your professional glazing problem. From your initial concepts through to your completed design and beyond, our team can help you to develop the most practical, innovative and innovative solution on a budget that fits your needs. SOLAGLAS is the glass and glazing management team for the future of glass and glazing.

Little wonder when you consider we're part of the largest integrated glass and glazing organisation in the world, operating on four continents. We can give you all the benefit of over 100 years experience, expertise and skill. We can advise and provide the glass from the country's biggest range as well as glaze, supply and install glazing systems. And when after construction we will be on hand to ensure that everything continues to work well.

Thank us for the difference between glass and SOLAGLAS. Solar. Our Advisory Service on 01-839 2971 — and let there be light.

SOLAGLAS Limited, 46 Finsbury Square, London EC2A 3AT

SOLAGLAS

Enter 19 ON EXPRESS ENQUIRY CARD



## Planning

## Inspector overrules council

AN enforcement notice alleged that there had been a breach of planning control in that in the conversion of farm buildings to a dwelling at Low Towhouse, Barkerhouse, Nelson, there had been the installation of:

- bargeboards and projecting purlins on the said dwellings and on the porch erected on the east elevation of the dwellings;
- single light window frames in the first-floor windows in the east elevation of the dwellings; and
- glass blocks in the former ground-floor windows in the southern elevation on the two dwellings, all without permission.

The notice required the removal of these.

The approved drawings showed openings in wall "to be walled up" and it was submitted by the appellants that the use of glass bricks complied with that. But the inspector with delegated powers held that "in the circumstances of this converted

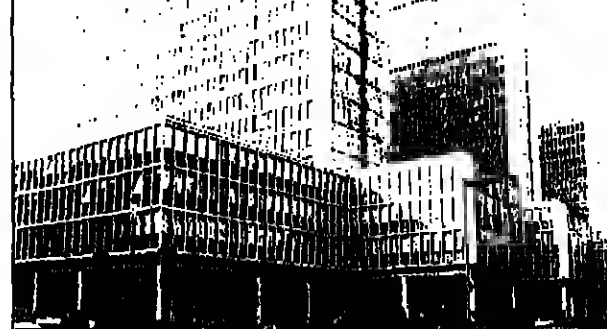
barn, with walls built almost entirely of stone, it would be unreasonable to conclude that either 'walling up' or 'bricking up' would result in panels of glass blocks".

However, he did say: "These matters are to a large extent matters of opinion, and the department's Circular 22/80 advises that the control of external appearance should only be exercised where there is a fully justified reason for doing so."

"The bargeboards on the porch and above the east elevation are, in my view, quite dominant features of the relatively light coloured stone buildings. Visually they attract the eye away from the much lighter roof-line of the listed buildings, and in doing so thereby detract from the setting of the building. I do not consider that the same can be said of the bargeboards on other elevations, and I therefore propose to grant permission for the retention of those."

"The windows, particularly those on the first floor of the east elevation, are noticeably different from those in the listed building and in my opinion emphasising the more modern appearance of the converted barn."

## Appeal decisions



"This also applies, however, to the ground-floor windows, albeit they are less prominent, and I do not consider that replacing the first-floor windows with frames having more pronounced vertical bars would significantly alter the fact that the materials of the walls and windows of the converted barn are all more recent than those of the farmhouse, and of a more modern appearance."

"The very fact of converting the barn, which is set forward of the farmhouse, must inevitably have some adverse impact on the farmhouse, but in my opinion nothing less than the use of stone mullions (which are not required by the council) would materially affect the relationship between the dwellings."

He therefore granted planning permission for the retention of all the features objected

to by the council, except for the bargeboards on the east elevation.  
T/APP/E2340/C/85/433.  
Pondle BC.

## Thatched roof hazard

AN application to rebuild a fire-damaged cottage, which was a listed building, changing the roof covering from thatch to secondhand clay tiles, was refused by Chichester District Council. The cottage was at 105 St Paul's Road.

The secretary of state allowed the appeal after written submissions by the appellant's solicitors and a visit by a DofI inspector.

He decided: "Apart from the effect which a tiled roof would have on the historic quality of the building, an important material factor in these appeals is the fact that, as experience has clearly shown, a thatched roof in this location would constitute a potential fire hazard."

"The secretary of state appreciates that precautions could be taken to reduce the risk of fire, but he shares the inspector's view that extension of the

chimney stack at rear would over-emphasise to a degree which would be detrimental to the character of the building."

"He therefore regards potential fire hazard as a justification for permitting replacement of the thatch with tiles."  
APP/L3815/A/85/0340.  
Chichester DC.

## Tile appeal rejected

PLANNING permission was refused for the replacement of the thatch on the roof of a house, West Burton, Sussex, by hand-made tiles.

The secretary of state, receiving the report of the inspector, dismissed the appeal. He said he agreed with the inspector's appraisal, particularly that the loss of the thatch would be a detriment to the character of the building. He also agreed with the inspector's view that the proposed tiles would be a detriment to the character of the building.

APP/L3815/E/85/0006.  
Chichester DC.

## Threat of dereliction

"It is agreed that sufficient land has been made available within the Chichester district to meet the housing allocation specified in the approved structure plan for the five-year period to 1989," reported an inspector who held an inquiry into the appeal of E.H. Bradley Estates Limited against the refusal of planning permission for residential development on Pontins Holiday Centre, East Wittering.

He added: "However, Circular 15/84 advised that the existence of a five-year supply of housing land is not in itself a reason for the refusal of permission and Circular 14/85 makes it clear that the provisions of the development plan are only one material consideration."

He recommended that as there were no valid planning objections, the appeal should be allowed.

The secretary of state agreed, and added: "Much weight has been placed on the importance of avoiding dereliction on the site, which is likely to occur once

Pontins have left; this would pose a real and significant threat to the quality of the landscape."  
APP/L3815/A/85/03209.  
Chichester DC.

## Room at the inn

THE Hermit Inn at Higham, Barnsley, was granted planning permission for the erection of a games room extension.

It was subject to the condition: "The development shall be carried out in strict accordance with the plans and specifications hereby approved."

It was alleged by an enforcement notice that there had been a breach of this because an open archway linked the two areas.

But the inspector who heard the appeal said: "At the end of the inquiry, however, it was conceded by the council that the works referred to in this application did not, after all, amount to development requiring planning permission."

"They were internal works that did not affect the external appearance of the Hermit Inn. Quashing the enforcement notice, the inspector said:

"Condition 2 is a once-and-for-all condition which, once complied with, ceases to have any effect upon subsequent works that may be carried out. A condition could have been framed expressly requiring the maintenance of the wall and door as a sound-proofing measure."  
T/APP/B4405/C/85/1262/P6.  
Barnsley MBC.

## Rivals in appeal

THE inspector with delegated powers was faced with two appeals for the redevelopment of a site at Reden, Melford, Surrey, following the demolition of an existing block of flats.

The first was for the erection of 31 dwellings, of which 16 were flats, the second for 22, including six one-bedroom bungalows. There were 57 parking spaces in the first scheme and 55 in the second.

He said: "The main issue in each case is whether the appeal proposal constitutes overdevelopment, which would affect adversely the visual character of

the area, the amenities of nearby residents, and result in an unsatisfactory environment for those living in the proposed development."

He reported: "The proposed car parking would be in front of or at the side of the proposed dwellings. As a result, a high proportion of the open areas around the building which are visible from the estate road would be hard-surfaced, and would be used for the parking of cars."

"Scheme 2 proposes 19 two- and three-bedroom houses, in terraced form, and three flats; unlike Scheme 1, it proposes no reduction in the size of the car park which serves the existing block of flats. A significant proportion of the car parking is located behind the buildings in courtyards."

"The third difference between Scheme 2 and Scheme 1 is that the only trees covered by the tree preservation order which would be affected are a limited number of the line of cypresses in group 1. While this is undesirable, it is not sufficient on its own to justify withholding planning permission, especially as new planting is proposed in close proximity to the trees which would be lost as a result of the development."

He wrote: "The first question to be decided is whether the appeal site falls within the boundaries of the village of Wivelsfield Green."

He therefore granted planning permission, subject to conditions, for the second scheme.  
T/APP/R3650/A/84/023367.  
PZ, Waverley BC.

## Housing allowed

"THE country structure plan for East Sussex provides that, in named villages including Wivelsfield Green, small-scale housing development and infilling are permissible in certain circumstances," reported an inspector who held an inquiry into the refusal of Lewes District Council to grant outline planning permission for the residential development of land at Albion Nurseries, Wivelsfield Green.

He wrote: "The first question to be decided is whether the appeal site falls within the boundaries of the village of Wivelsfield Green."

"The purpose here is to decide which policy of the structure plan applies, and therefore whether residential development may, in principle, be appropriate.  
The policy presumption is

that the land defined as outside the village will not be developed, and will remain in its present use."

"Albion Nurseries are at present hardly used at all. The glasshouses are in a ruinous condition and much of the site is overrun with scrub and brambles, although a few vegetables are grown in the south-western corner."

"I consider that the derelict nursery makes little or no contribution to the countryside, and that the structure plan seeks to conserve the landscape and character."

"In any event, Wivelsfield Green is characterised by estate development, and it can be seen that about half the houses in the village are in the Downsview Drive/Allwood Crescent development, immediately to the west of the appeal site."

"The number of dwellings remains to be settled, but there was no evidence to show that, purely in numerical terms, a further 20 houses would be an overdevelopment or place an undue strain on existing services."

Exercising delegated powers, he granted permission subject to approval of the details.  
T/APP/P1435/A/85/036484.  
Lewes DC.

## TWO UNIQUE EVENTS IN THE PROPERTY WORLD, UNDER ONE ROOF.

◆ A new opportunity for those involved in the management, development and construction sectors of the property market to see the latest products and services designed to improve efficiency and profitability.



◆ A unique business forum where forward thinking architects can display their work and market their skills to an influential audience of key decision-makers responsible for commissioning building work.

### ARCHITEX 86

24h 16 8 0 4 16 24h

Name \_\_\_\_\_

Company \_\_\_\_\_

Address \_\_\_\_\_

Postcode \_\_\_\_\_ Tel \_\_\_\_\_

Please send me \_\_\_\_\_ tickets. 80

I am interested in exhibiting

☐ at Architex Exhibition

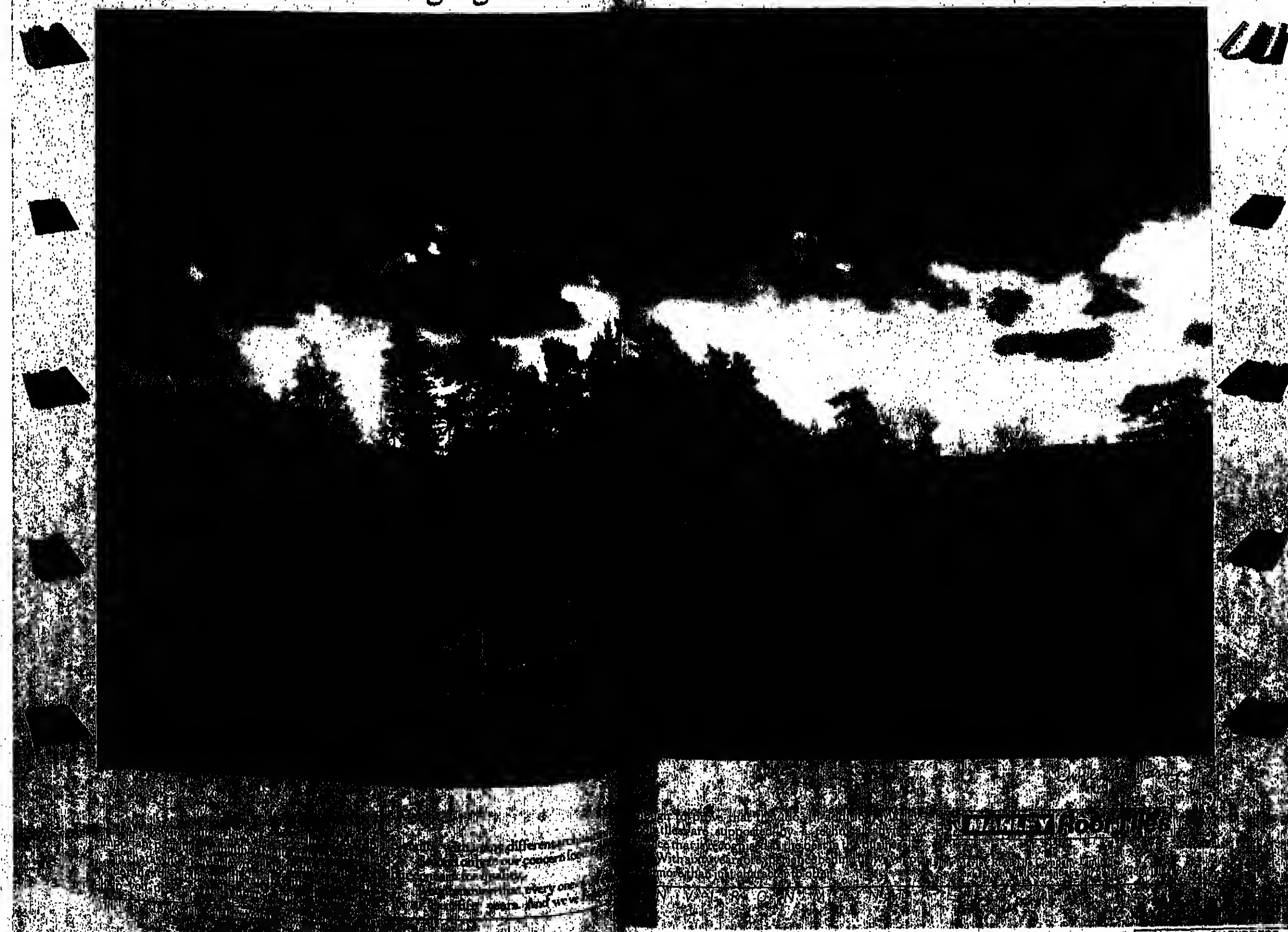
☐ at The Property and Construction Management Exhibition.

Return to: The Professional Exhibitions Ltd.

216 Goldhawk Road, London W12 9NX Tel: 01-995 8003

Barbican Exhibition Hall, London EC2 • 25-27 June 1986

We've been bringing character to the environment for over sixty years.



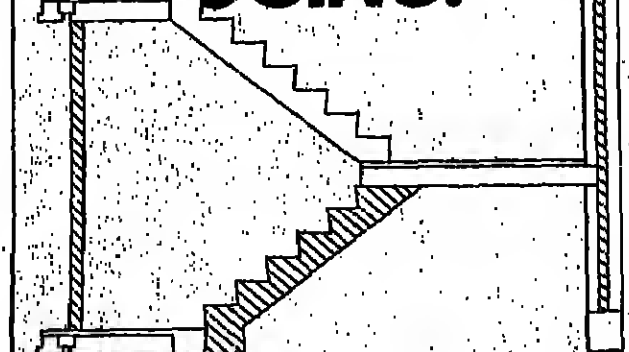
## The STRESSLINE Service

Thank goodness someone offers a complete service in pre-stressed concrete ground and upper flooring! Plus Staircases, Landings, Lifts, Balconies. The lot. All can be fixed quickly and efficiently by our professional teams or delivered for you to fix (with our free advice).

Large scale standard production slashes costs and saves you valuable time on site. Strength and reliability are built in features.

If you want a service that carries on where others leave off (or begins before they start) you want STRESSLINE FLOORS.

## RISES WITH THE GROUND FLOOR AND KEEPS ON GOING!



Name \_\_\_\_\_

Position \_\_\_\_\_ Company \_\_\_\_\_

Address \_\_\_\_\_ Tel \_\_\_\_\_

STRESSLINE FLOORS LIMITED

STONEY STANTON, LEICESTER, LE9 6LX.

TEL: (045 527) 2457.

Enter 20 ON EXPRESS ENQUIRY CARD

Enter 12 ON EXPRESS ENQUIRY CARD



Two local architects have developed the abandoned Victorian King John's Chambers in Nottingham. It is now a shared workspace for designers and craftsmen. James Luce reports.

# THE SHARESPACE OF NOTTINGHAM



New neon sculpture by Celyn Jones marks the arcade entrance.

KING John's Chambers, a grubby Victorian building in the centre of Nottingham, had been empty for several years when it was discovered by two local architects. By developing a range of design, management and entrepreneurial skills, they were able to transform it into a thriving piece of the city.

The building, which contains about 12,000sq ft of space distributed on a mixture of three and four floors, is located on Bridlesmith Gate — a much used pedestrianised street which links two major shopping developments. This, together with the fact that many of the neighbouring properties were already being improved, was a

significant factor which made this particular building an obvious case for treatment.

The potential of the building for development was enhanced by its basic physical form. It was made up of a four-storey block facing onto Bridlesmith Gate and fronting two long, parallel three-storey wings. These two wings extended the full depth of the site and were separated by a narrow pedestrian alley which linked streets at the front and back of the site.

Local architects Andrew James and Tim McCartney had wanted to be actively involved in the processes of change and renewal in Nottingham and originally had plans to develop a building in the Lace Market nearby. This scheme did not

materialise, but they discovered 13-15 Bridlesmith Gate.

Within the basic shell of the building there was a range of internal spaces of differing shapes and sizes. While the front block, with its generous projecting bays and dormers, provides opportunities for large square work spaces, the long narrow plans of the two back wings were well suited either for ranges of rooms or single open spaces. A regular grid of windows onto the pedestrian alley also provided levels of lighting and outlook which were appropriate for offices, small workshops or studios.

Although the alley was grubby and unused, it did provide a direct link through the block from Fletcher Gate to Bridlesmith Gate and the area down in level between those streets provided direct access to the ground floor at one end and first floor at the other. Two bridge links across the alley provided lateral connections between the wings of building at first and second floor levels.

The internal refurbishment and improvements were designed to create a range of units within the shell. These vary from a tiny 329sq ft space on the ground floor to the 1,368sq ft office above, which is occupied by the James McCartney Partnership. The design initiatives which these architects brought to the project were significant. All of the interior spaces were upgraded to a high standard of finish. Careful choice of materials, colour schemes and graphics helped to create a sense of a working community. The project was called Sharespace.

But it is perhaps in the design of the external spaces that the architects made the most significant impact. By repaving the alley in white and grey tiles, adding planting, external lighting and a simple glazed vault along the length of the alley, it has been transformed into a bright and lively arcade. Graphics for hanging signs and elegant historic markers, together with a vital mix of retail uses

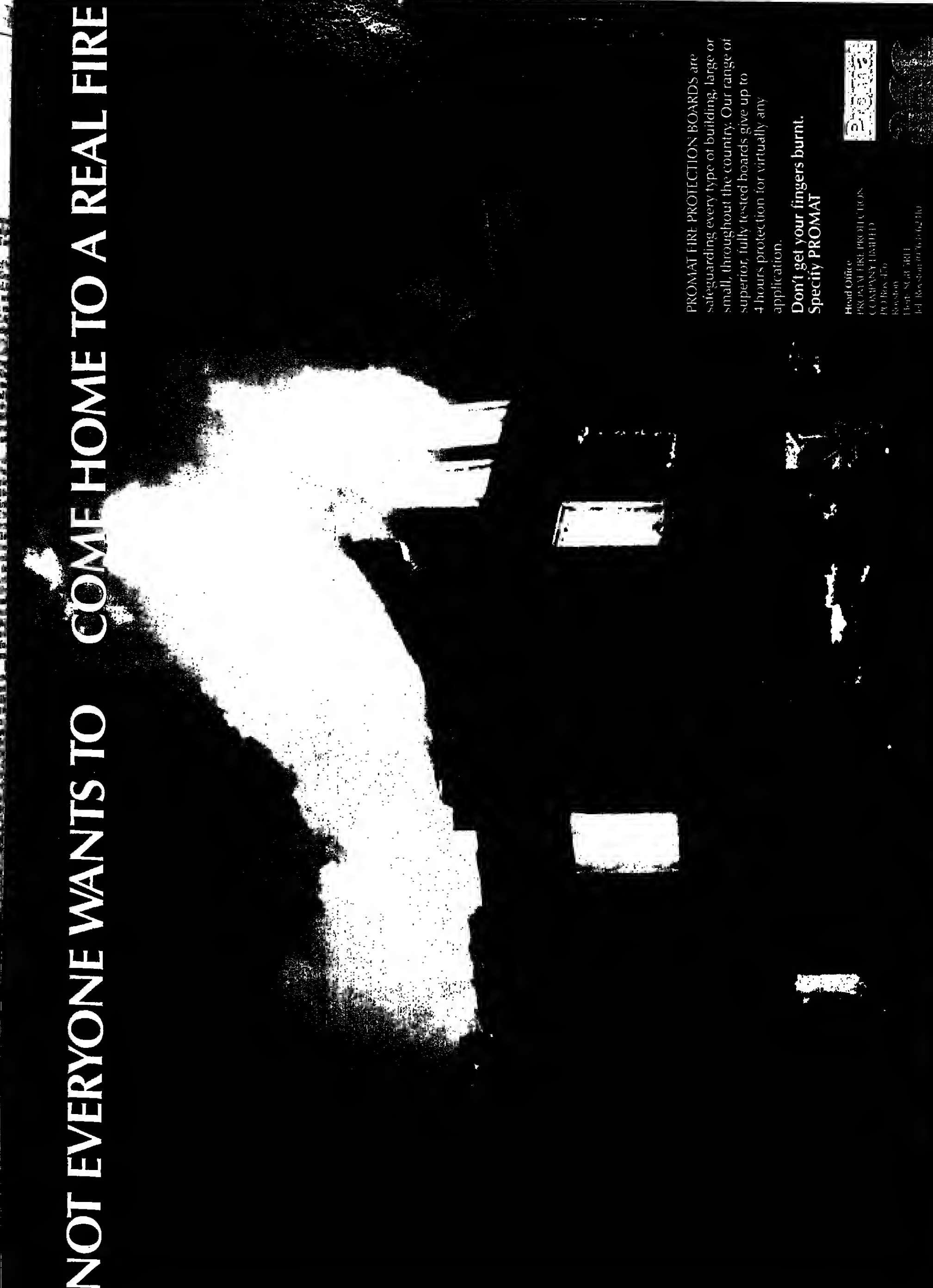
at ground level, make this at the centre of the project and active focus for staff and visitors alike.

The symmetrical form of the facade to Bridlesmith Gate suggested an entrance and order to emphasise the arcade, a neon sculpture commissioned from Celyn Jones. After a series of studies the artist's final work was for a 10m neon sculpture which forms a structure over the entrance to John's Arcade. The sculpture hangs from the soffit and is made up of a series of neon tubes with a wide colour range switches in sequence through orange through the spectrum to pale blue.

The Sharespace project developed in four stages over several years. For the first phase, which included the refurbishment of the first, second and third floors of the front block, the architects worked with the owners. In the second phase, when estimates for the second and third phases were prepared, the owners sought to sell the property. Eventually the scheme was carried out with the capital provided by the Metropolitan Pension Fund. James McCartney Partnership were paid to act as architects and project managers. The refurbishment of the back wings was finally completed in 1982.

This locally initiated scheme was one of the first shared workspace projects outside London and one of the first to obtain building funds from a major institution in the private sector. Now, seven years after the project was launched, the building houses a collection of designers and craftsmen working in computer graphics, painting, architecture and other trades. It is a place where retailing, food, knitwear, clothes and furniture are sold. The original vision behind Sharespace — "to create a group of small firms with a common link through an aspect of design to work under one roof with shared services" — is indeed a valid one.

NOT EVERYONE WANTS TO COME HOME TO A REAL FIRE



PROMAT FIRE PROTECTION BOARDS are safeguarding every type of building, large or small, throughout the country. Our range of superior, fully tested boards give up to 4 hours protection for virtually any application.

Don't get your fingers burnt. Specify PROMAT

Head Office:  
PROMAT FIRE PROTECTION  
COMPANY LIMITED  
PO Box 476  
Bosston  
Leeds, S4 6 3RH  
Tel: 0534 610111

Part of the Eternit Group

3M Fire Barrier products are designed to limit the spread of fire, smoke and toxic fumes by blocking off holes, cracks, or service penetrations in fire-retard structures.

Which is why we recommend them as an integral part of initial designs. And why they can help you meet The Building Regulations 1985 and gain acceptance of your plans from Local Authority Building Control departments.

So whenever a structural design needs specific fire resistance, specify 3M Fire Barrier products. They could save you a great deal of time and money. For immediate advice phone Trevor Leadbeater on Bracknell (0344) 587555 or complete the reply coupon.

Please send me more information on 3M Fire Barrier Products.

Name \_\_\_\_\_

Position \_\_\_\_\_

Company \_\_\_\_\_

Address \_\_\_\_\_

Tel. \_\_\_\_\_

To: Trevor Leadbeater, 3M United Kingdom PLC, P.O. Box 1, Bracknell, Berkshire RG12 1JL.

3M FIRE BARRIER PRODUCTS

CONTAIN FIRE BEFORE IT GETS OUT OF CONTROL.

3M



A view towards Bridlesmith Gate — the arcade used to be outside.



Owen Williams

Owen Williams

Dannis Sharp concludes his two-part appraisal of the work of Sir Owen Williams with an examination of his projects for the Empire Pool and the Pioneer Health Centre at Peckham.

# THE PROPHET OF CONCRETE

BESIDES the Wembley Exhibition, the Boots buildings at Beeston and the three *Daily Express* buildings in London, Glasgow and Manchester, Sir Owen Williams designed two other important innovative structures: the Empire Pool and the Peckham Health Centre, both of which achieved international recognition.

There were many other structures — including some fine bridges — but these are insignificant compared with the originality of his approach to the new problems of the age. His output was impressive and, as he worked only with small teams, his personal touch is to be found in most of his projects. In scale of

jobs and client satisfaction he outstripped most of the architects working through the enterprising 30s.

Here was a designer carrying out the much-vaunted, clear-minded rational architecture demanded by the Modern Movement's founders. Here, indeed, was "The Engineer", whom Le Corbusier decreed would assume the mantle of the moribund architect. But Williams never became a card-carrying member of any group, nor did he — as far as I know — acknowledge his debt to Le Corbusier, or anyone else. He was a true sense of a self-made man answerable to no-one. He was never a member of the English MARS Group, nor affiliated to an architectural institution,

other than that of the Naval Architects. Yet he was seen universally as one of the most successful representatives of the new architecture in England with his work displayed in such influential exhibitions as the one sponsored by the Museum of Modern Art, New York, with the British Council, in 1934.

So where does Williams fit into the scene? What were his background and aspirations? How did he find such a successful formula for the new architecture based on good design, social cohesion, structural performance and spatial organisation? These are the sort of questions being asked by a new generation of designers who view his work as significantly more than the tip of the iceberg

of British Modernism of the 30s. We can go some way in answering these questions by reference to the facts, but for most of them one is concerned with speculating on the buildings themselves and on the few lectures, short speeches and articles that Williams himself prepared.

Although he appears to be Welsh in name, Evan Owen Williams was born in Tottenham, London, in 1890. He was educated at Tottenham Grammar School and studied engineering part-time at London University, from where he gained a BSc in 1911. From 1905 to 1911 he also served as an apprentice with the Electric Tramways Co in London. In 1912 he worked as an engineer

for the Trust Concrete Co (later, Truseon) but a year later became chief aeroplane designer for Wells Aviation Ltd. During the First World War he worked on concrete ships. He set up in practice in 1919 on his own account. A couple of years later he was made chief consulting engineer to the British Empire Exhibition, a position he held until 1925.

From the beginning of this important appointment he sought to pioneer concrete construction in its mass and reinforced forms. In 1923 his "raw" work was exposed to a critical public in the newly opened Empire Stadium. It was itself an opening salvo in a discussion that lasted well up to the time of MI work in the post-war period. Initially his philosophy was almost entirely based

on a typical British pragmatic approach to both subject and material. With experience — particularly of large-scale structures — his attitude to the use and finish of the new material developed. He expressed great interest in economy and efficiency in construction.

Commenting on the construction of the enormous 125,000 capacity Empire Stadium, designed with the British architects John Simpson and Maxwell Ayrton, he spoke of the need for economy in the construction of such huge buildings, particularly those which had to be erected on limited budgets for exhibition purposes. Talking in the AA in 1925, he said: "An exhibition was naturally handicapped, particularly in its earlier stages, by lack of funds, and every device had to be adopted which would save money."

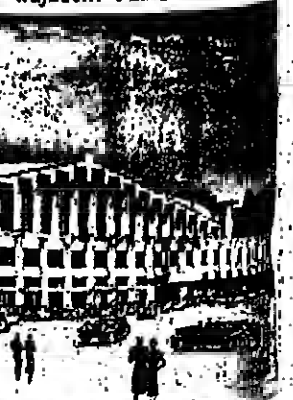
Thus, for Wembley he chose to construct two major structures for the United Kingdom's exhibits — both of very large proportions — rather than a series of smaller ones: "Had eight buildings been used for housing the United Kingdom exhibits instead of two the additional cost would have been

something like £150,000." He concentrated on large-scale effects: the wider layout of the exhibition site was capital of solution on a gigantic scale.

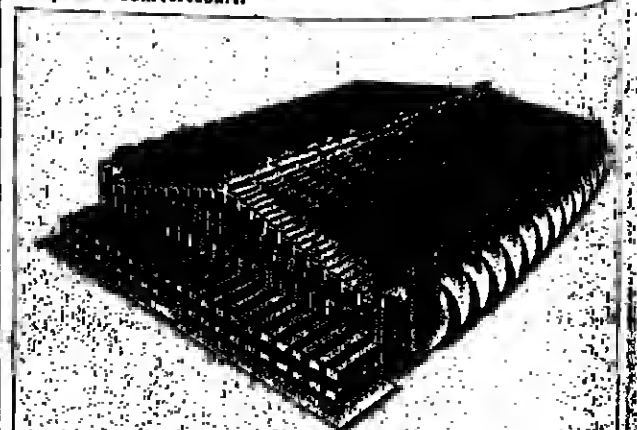
The original layout of Wembley consisted of the two concrete sports stadiums, the two giant Palaces of Industry and Engineering, as well as enormous "balancing lake" reserved as a reservoir for fire water and the rainwater off the roofs of the stadium itself. The mixture of this late today's great Wembley Stadium plays an important part in Britain's sporting calendar. Although its actual capacity somewhat less than originally anticipated, it remains one of the most popular arenas in the world.

Its construction exploited ideas borrowed from historical examples, particularly Greek and Roman amphitheatres whose great semicircles of seats were often carved straight out of the Earth's crust. At Wembley the excavations for the big bowl of the stadium were made a filling on which were forced the concrete staging for the seats.

At the exhibition in the adjacent Palaces of Industry



Perspective from forecourt.



The original for the Empire Pool showed the beams terminating as radiating discs in this sketch by Norman Howard.



Interior sketch showing basements inside the Empire Pool.

the flooring was in a non-reinforced concrete slab only 4 inches thick formed on a filling between brickwork piers at 8ft 4 in centres. After the concrete had set, the filling itself fell away from the slab, leaving it as an elementary and economic flooring membrane.

The use to which Williams put concrete construction was dictated by government legislation and policy. In the first half of the 1920s brick was reserved for house building and concrete for

industrial construction. Williams, writing on this topic in an article in *The Times* on November, 1924, deplored this situation and argued for a more adventurous use of concrete because the "efforts to increase house building have failed, principally because of the deficiency of bricklayers". Concrete, he argued, might well be used as a substitute for bricks in house construction (as it had been in the USA and as it had also proved its worth in industrial building).

It was precisely in this latter area that Williams was to make his mark. Here he came close to forming a basic philosophy for concrete design — at this stage, before his pioneering work for the Boots company — at least, insofar as housing was concerned.

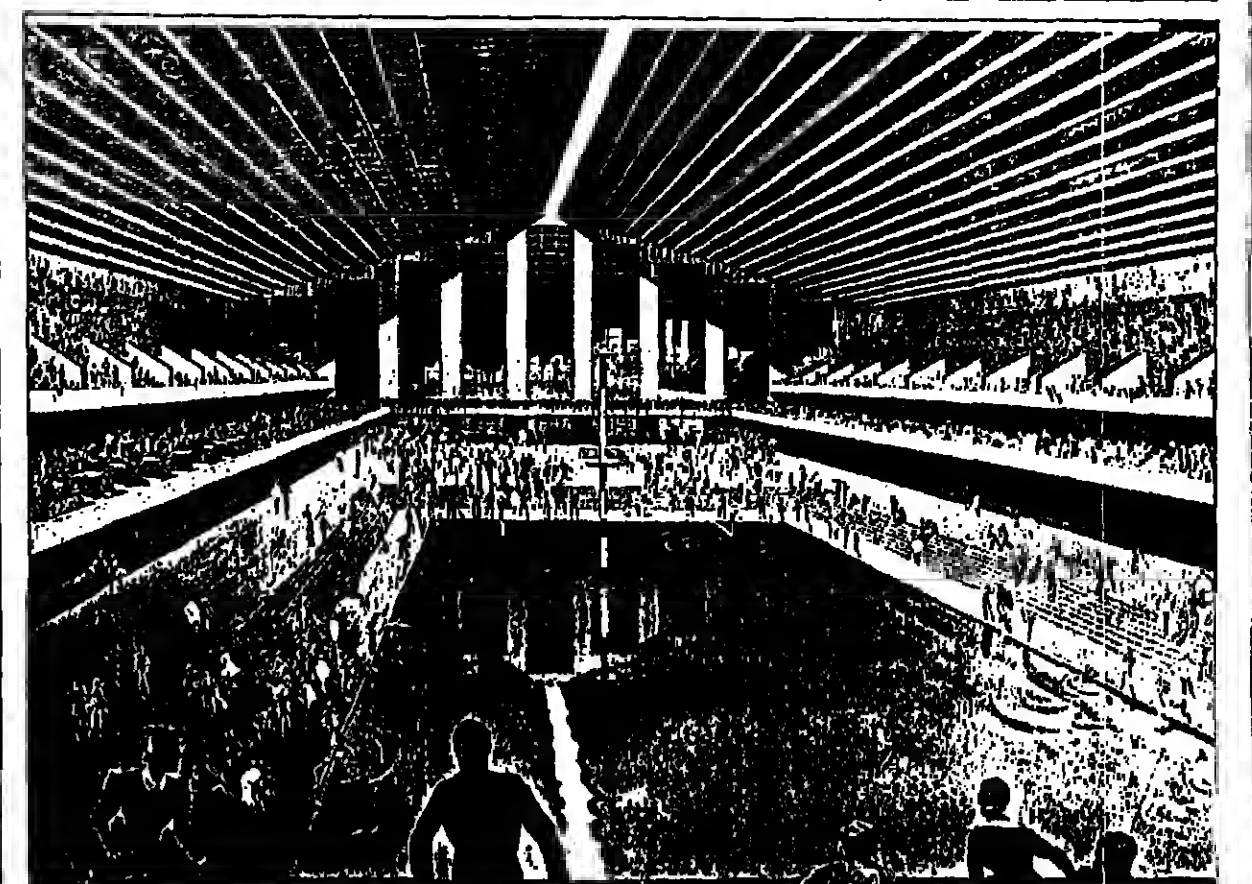
What would a concrete house look like? he asked in his *Times* article. He gave his own answer: "... We must think of a world accustomed to concrete construction before bricks. The

methods of manufacture and use in domestic architecture. Drawing again on historical precedent, he postulated: "Side-by-side with concrete houses would have grown up different domestic habits... the use of concrete for housing as it should be used involves something far greater than the mere transposition of the construction of one material to another. It may mean a far-reaching change in the social life of the country." He proceeded

to indicate the nature of the types of form changes he had in mind: "... paper house in Japan, mud house in Africa, and wigwams of the Indians: each a distinct type evolved by the available material, and no more reproducible satisfactorily in brick than a brick house in concrete."

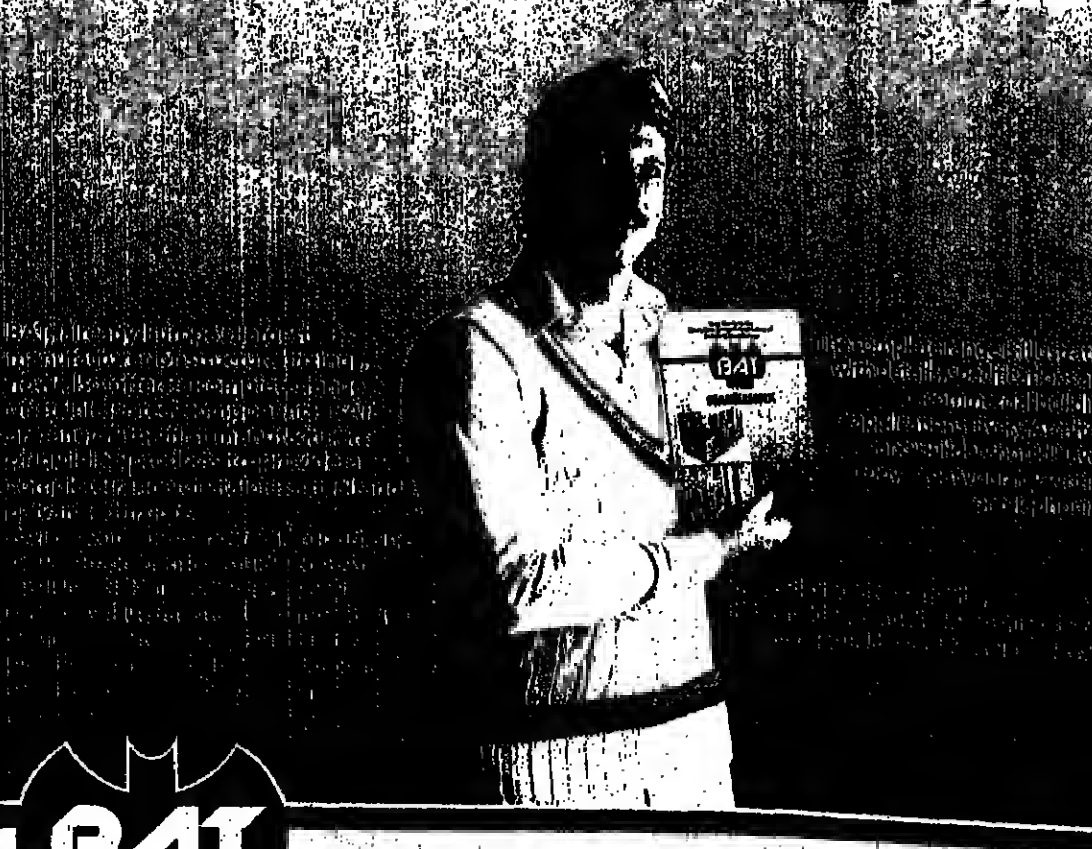
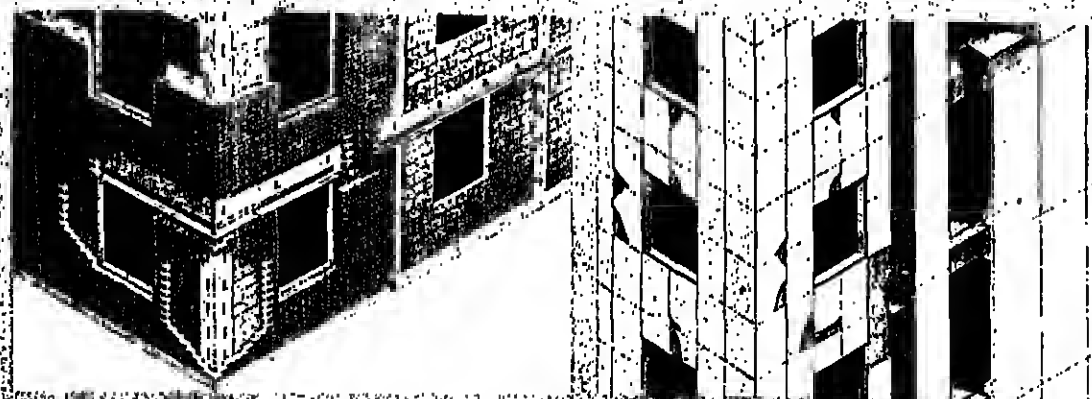
Having employed in his arguments the precedents of history, of house form and culture, Sir Owen built them up

continued page 24



Perspective view inside pool.

## Hard Hitting Facts from BAT Stainlessfix



**BAT**

STAINLESSFIX

It's your best choice all round.

## NOW YOU CAN GET THE WHOLE SYSTEM UNDER ONE ROOF.



Introducing an integrated package that will make project planning a good deal easier from now on.

Why? Because for the first time ever, you can get a complete range of doors, walls as well as loading bay equipment direct from a single source.

Crawford.

To begin with, there's the door. Not just any door, mind you. But the outstandingly successful Crawford 342.

No other offers quite so many openings for architects. From design flexibility through to ease of operation it's still without equal.

And never bettered for the standard of insulation.

Small wonder, as each panel provides a thermal barrier equivalent to an 11" foam filled cavity wall. It keeps heat in. Keeps fuel costs down.

And now, there's a complete range of dock shelters and dock levellers that will install alongside it.

The levellers come in a sturdy, all-welded frame that fits directly into the loading bay. To install them is simple.

So too is operation. The levellers adapt to the angle of any vehicle. Even when loaded unevenly.

The shelters, on the other hand, offer real protection from the cold. As well as protection from damage.

Each section simply bolts on, so it can be dealt with quickly and effectively.

All this, in addition to the Crawford 400 Series Wall System.

Another very attractive proposition for those keeping a close eye on fuel economy. (Where else can you get U-values as low as 0.17 W/M<sup>2</sup>C°).

And it gives every job a very attractive finish.

With a wide range of glazing options. Three panel widths. And colours, any you like, including seven in the highest grade PVP2 finishes.

And we'll give you expert service back-up. Detailed design assistance. Trained technicians to help with installations.

And a comprehensive maintenance service.

It all adds up to an exciting new package from one of the country's leading manufacturers.

Who else do you know offering so much under one roof?

**Crawford**

Please send me further information on the new package from Crawford.

Name \_\_\_\_\_ Position \_\_\_\_\_

Company \_\_\_\_\_

Address \_\_\_\_\_

Telephone \_\_\_\_\_

Current project? Yes/No \_\_\_\_\_

For the Crawford Dock Limited, Milton Road, Milton, Stoke-on-Trent, Staffs.

Crawford Dock Limited, Milton Road, Milton, Stoke-on-Trent, Staffs. Tel: 0902 33000. Fax: 0902 33001. Telex: 250000. Cable: 250000. E-mail: 250000. Website: www.crawford.co.uk



# Owen Williams

## The prophet of concrete

from page 23

to form his main point: "Concrete is a contemporary (material) of the industrial era." It was this new industrial fact of life which called for new types of buildings that would, as he said, "make demands in strength and height which must be satisfied economically... to use concrete for modern structures is to put it to its natural use". Throughout the rest of his long and effective career, Williams' views were put to the test, whether for prefabricated concrete houses, concrete slabs, motorways or the brilliantly innovative projects of an architectural character for which he is justly well remembered.

After 1929 he worked less frequently with architects, choosing to act as architect-designer and engineer-consultant on many projects. He was, as we might now say, "his own man", designing and consulting on a variety of projects from inception. Some he lost. The story of the first design by Williams for the Dorchester Hotel in Park Lane, London, is interesting. After the first floor was put in a new, more modern looking, architectural solution was proposed by Curtis Green & Partners.

Other projects brought him instant world acclaim. It is these for which he is justly best remembered, for they have changed the course of engineering and architectural history. Beeston, the Empire Swimming Pool — which he added to a site adjacent to the earlier Wembley Exhibition buildings — and the pioneering medical building for the new health centre at Peckham, London (designed with Dr Scott Williamson) represent his most original contributions to the new architecture.

These pioneering structures testify to Williams' unswerving faith in reinforced concrete and its practical use as a material and to the cause of functionality in design. The Empire Swimming Pool and Sports Arena was officially opened by the Duke of Gloucester on July 25, 1934, at

Wembley, Middlesex. The new building — situated next to the earlier Empire Stadium erected in 1923 for the British Empire Exhibition — took the form of a huge arena covering about 2 acres. Set out on a unit of construction of 2ft 9in (the width of the spectators' terraces) the whole structure was 420ft long (including annexes, back and front) and 240ft wide. The swimming pool (200ft x 60ft) ran the length of the building and could be decked over to take an ice-skating rink (200ft x 85ft) or a tournament area (300ft x 85ft). The pool itself, which had a maximum depth of 16ft, was situated on the ornamental lake

designed originally for the 1923 exhibition. The total number of spectators for international and championship swimming events was rather more than 8,000, with parking facilities for 2,000 vehicles. Prominent restaurants ran down the long sides of the pool. The vertical dimensions of the building were divided into 3ft units. A further subdivision of these dimensions, 1ft and 6in respectively, gave the dimensional limit of the treads and risers of the stairs. This met the local technical requirements and also produced the rake of the spectators' tiering.

The pool itself was one of Williams' most spectacular designs, providing what was at the time one of the largest covered arenas in Britain. The structure was in reinforced concrete and all shattering was arranged on units of 2ft 9in horizontally and 3ft vertically, all dimensions being multiples of these lengths. The most notable feature of the first scheme was the roof supports, which were in effect three huge hinged arches cranked in order to allow space for the cantilevered galleries inside the arena. Huge beams ran down from the centre hinge in this first design to end on great curved semicircular ribs shown on the original drawings they gave the appearance of great modern streamlined flying buttresses.

There were to be 14 of these great half-plates on either side of the building. They were to return underneath the galleries and down in a 4in edge beam on the mass concrete foundations which acted as a second hinge. Work began on the site in October 1933 to an altered design. To coincide with the foundation work, a promotional booklet was issued by the Wembley Stadium board of directors, for whom Williams acted as engineer. In this brochure the Empire Pool (as it later became known) was promoted as the "sports centre of the Empire". In the brochure, too, it was estimated that the cost of construction was about £150,000. It was built by Holloway Bros (London), who successfully completed the contract in July, 1934, ready for the British Empire Games aquatic events at Wembley in August.

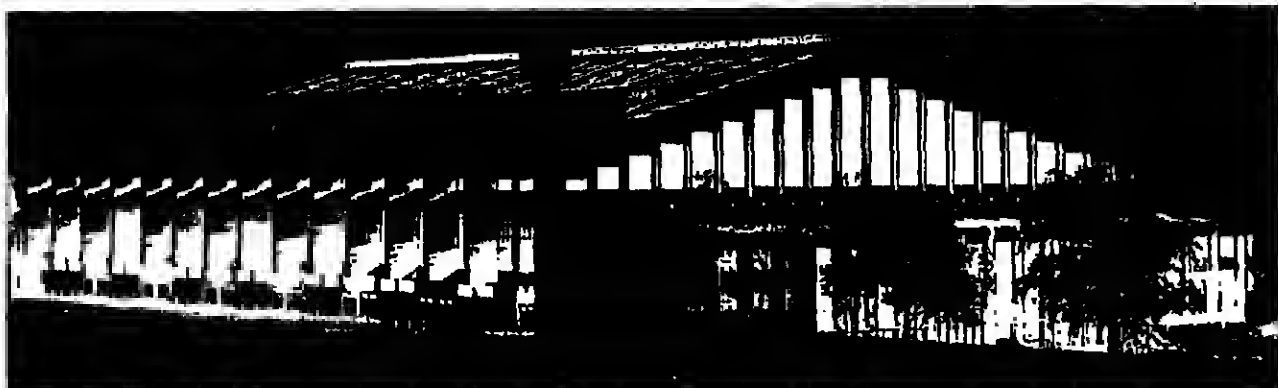
As well as a flexibility of plan intended to accommodate different sporting events, it was anticipated that the Empire Pool would also become one of the most popular social rendezvous in the country. A dance floor was situated on each of the

wide terraces and fully licensed refreshment rooms and cabaret areas were included in the plan. It was also anticipated that, because of the size, situation and the comfort levels of the building, it would become a suitable arena for boxing and equestrian events, trade and industrial exhibitions, circuses, agricultural shows, demonstrations and public meetings. According to the type of event, the total seating capacity could be increased as necessary to 12,000.

The great ribs were squared off and much criticised for their heavy appearance. But the building again became an international success from a sporting and from an architectural point of view. With the Pioneer Health Centre, Williams was dealing with an altogether different kind of problem to those he had met at Beeston and on the Daily Express Fleet Street building. Based on the new socio-medical ideas developed by biologists Dr J Scott Williamson and his wife, Dr Innes Pearce, as early as 1926, Williams had to come up with a unique building.

Medical community buildings were few and far between and there were no real precedents to draw upon. Drs Williamson and Pearce wanted to create a new scientific centre in which routine health observations formed an important part of its work. They chose a site in Peckham, London, because it was seen as representative of a socially mixed and stable area with a high predominance of blue-collar workers; also, it was not depressed like some of the East London inner areas.

In 1926 they opened their first centre, run from an old house along the lines of a family club. Their experiment was a bold and adventurous one that received a good deal of publicity through the publication of their own first polemical book *The Case for Action*, (1931). In this book they spoke of the frustrations that had developed through the cramped conditions of their first family club. It indicated that they were looking for something much more expensive, purpose designed and made, and which could be seen to "symbolise" the new social concern expressed through their observations and ideals.



Empire Pool, Wembley — night view taken in 1936.



Peckham Health Centre — a view of the undulating balconies.



Peckham Health Centre, a night view.



Daytime view.

## Who wants to fiddle on the roof?

**GLAZINGS?** No problem. Easy-to-install VELUX linings are available to suit all standard size VELUX windows.

**MAINTENANCE?** No worries. The brownish-grey exterior aluminium cladding ensures a maintenance-free finish which harmonises with any roof colour. Interior timber beautiful natural Redwood Pine vacuum impregnated protection.

**WINDOW CLEANING?** Simple, with the VELUX patented friction hinge which allows 180° rotation for easy access.

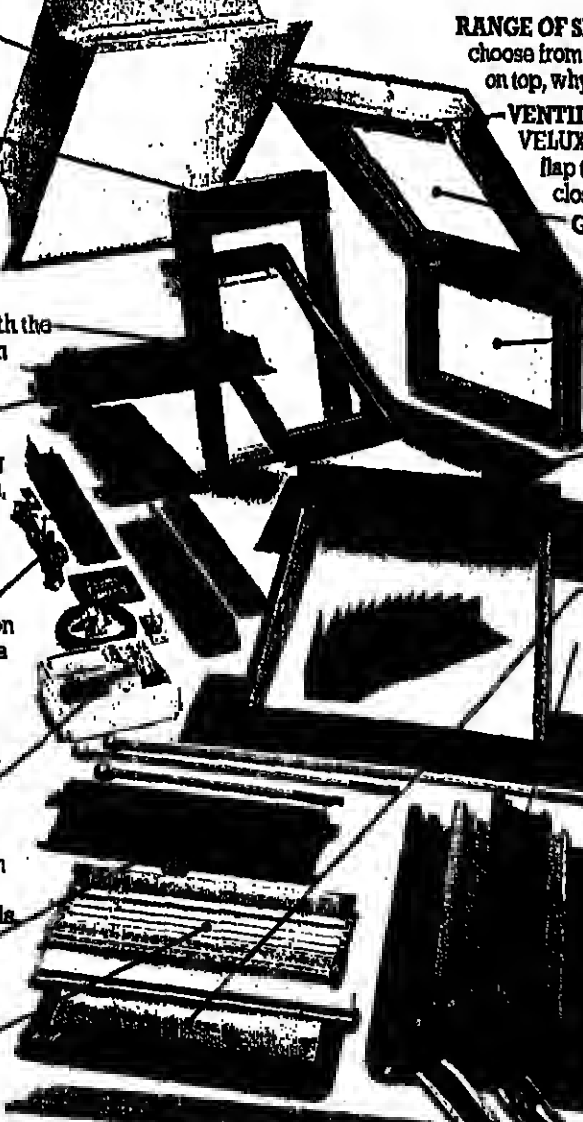
**FLASHINGS?** As you'd expect from VELUX, the complete roof-window system includes tailor-made flashing kits to suit virtually any roofing, pitch, material or coupled combination of windows. Installation is simple, and weather-tight.

**SAFETY?** All VELUX roof windows are fitted with patented double-action locks. For extra reassurance there's a range of safety and protection accessories: smoke ventilation attachment (indicated), safety latch, anti-burglar locks and even external shutters.

**REMOTE OPENINGS?** Even at exceptional sill heights VELUX roof windows are never out-of-reach with a range of rods, cords and electrically-operated remote controls.

**SUN-SCREENS?** Play it cool with VELUX anti-sun external awning blinds in durable net.

**VENETIAN BLINDS?** Instant light or privacy with Venetian blinds in eggshell-white aluminium to fit all standard VELUX roof windows.



**RANGE OF SIZES?** With nine standard sizes to choose from and custom-manufacturing facility on top, why bother looking elsewhere?

**VENTILATION?** Breathe easily. Every VELUX GGL window has a filtered ventilator flap to allow air circulation even when closed.

**GLAZING?** Accept nothing less than the VELUX standard: double or triple glazing, in any of the special glass types.

**VERTICAL WINDOWS?** We've thought of all the angles. VELUX vertical coupled windows can add versatility to your design scheme.

**SHALLOW PITCH?** The neat, watertight effective solution, VELUX kerb flashings are tailor-made in wood, aluminium and lead for roof pitches as low as 10°.

**BLACK-OUT?** Rest easy day or night with the VELUX Siesta Blind.

**ROLLER BLINDS?** The widest choice — the best quality. Seven coloured fabrics and five striped designs, complete with all the necessary fittings.



No fiddling, no fuss, no frustration when you choose the Complete System from VELUX. The Complete System means we've thought of everything to make your roof window installation simple, swift and durable. The Complete System ensures that the VELUX range is widely available locally, from stock, at leading builders' merchants throughout the U.K. The Complete System also promises you the most efficient technical advisory service and the finest nationwide after-sales support in the business. To find out more, complete the coupon.

**THE DEVELOPMENT OF ROOF SPACE**

The Velux Company Limited, Telford Road, Eastfield Industrial Estate, Chappell, The KY7 4HX

Please send me further information on The Complete System of Velux Roof Windows. ☐ This where applicable

I would also like the new Case Studies Brochure. ☐

NAME \_\_\_\_\_

COMPANY \_\_\_\_\_

ADDRESS \_\_\_\_\_

SHOWROOM at Chappell, Tel: (0924) 773311

Central Wood Road, Birmingham, Tel: (021) 321

Tel: (021) 321070 and 321071

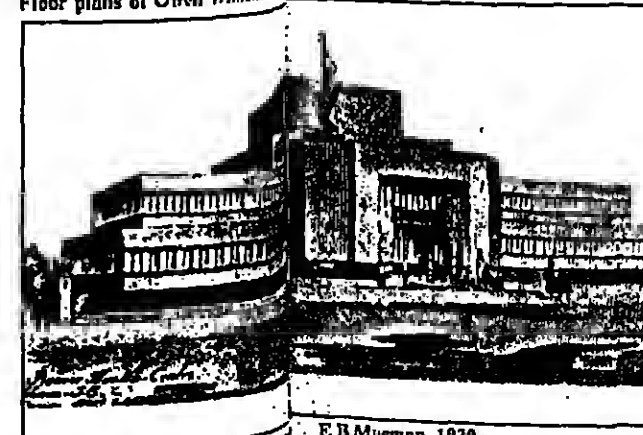
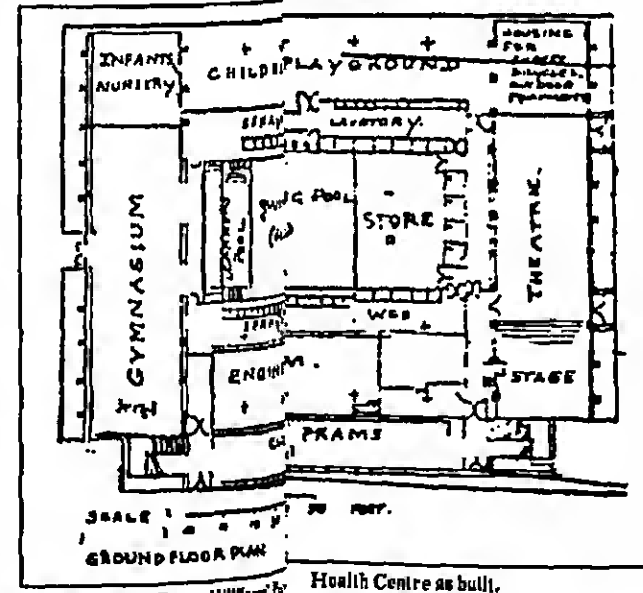
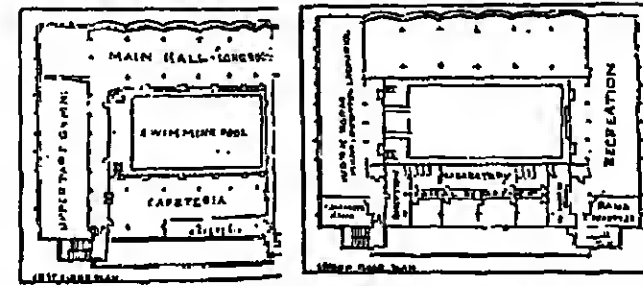
London Office, Peckham, Tel: (0181) 406600

East TMI LUX Ltd, (0223) 440000

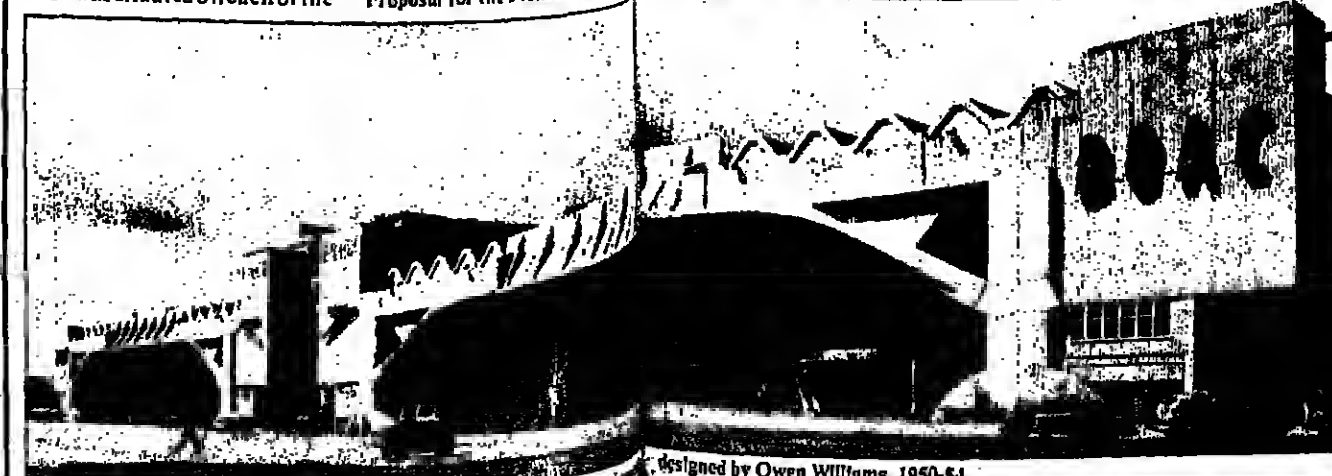
1 Upper Warrington Road, Dublin 2, Tel: (01) 606107

VELUX is a registered trademark.

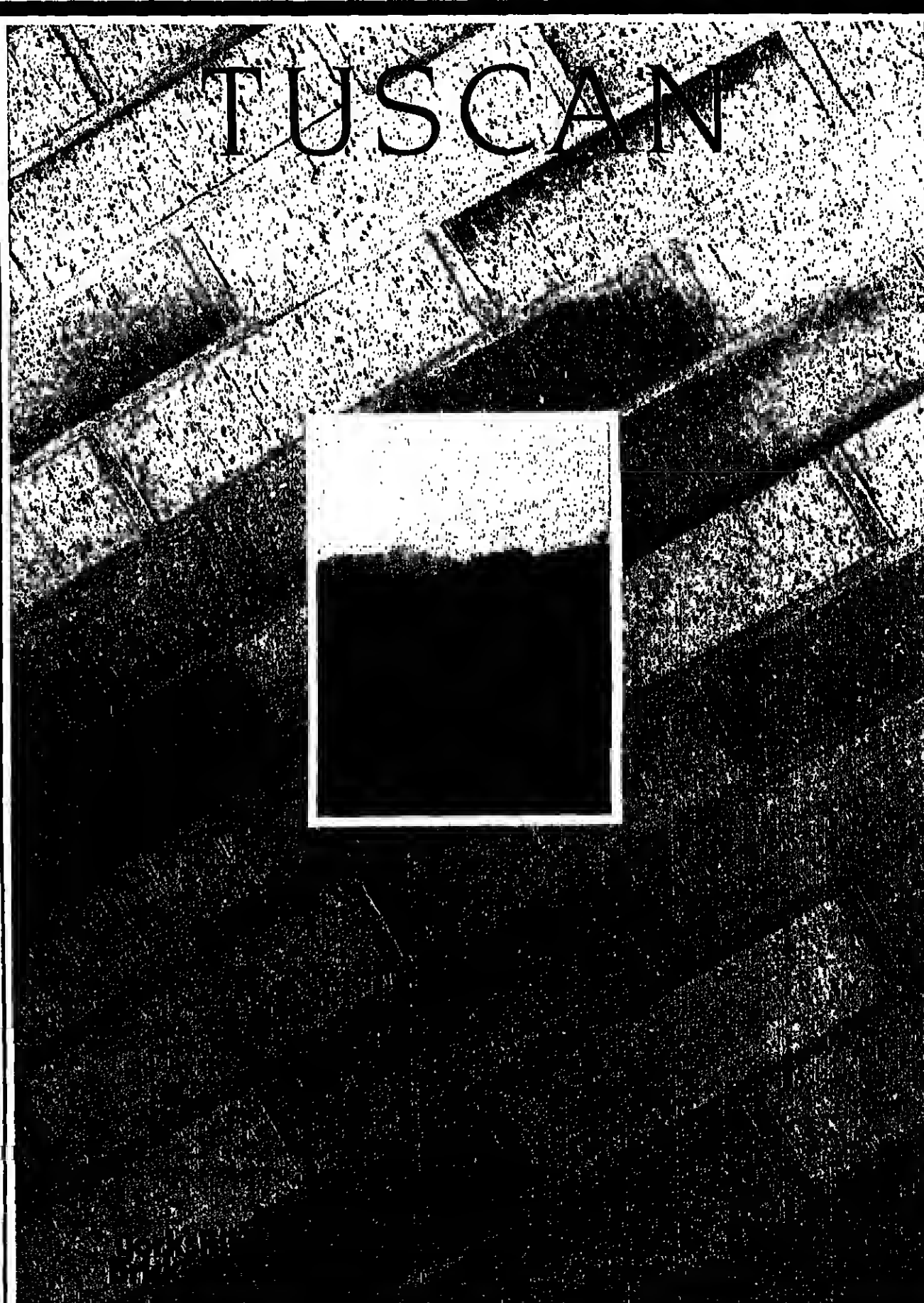
**VELUX** Roof Windows



Proposal for the Pioneer Health Centre by E.B. Musman, 1930.



The great BOAC hangar, one of the last great gestures to reinforced concrete, designed by Owen Williams, 1950-54.







The traffic office as it is now, and (inset) how it was.

# TEMPLE OF TELEVISION

A run-down Victorian traffic clerks' office in Liverpool's Albert Dock has been transformed into a hi-tech news gathering centre for Granada TV. Tony Aldous admires the blend of old and new.

THE traffic office at Liverpool's Albert Dock tucks into the north-east corner between two of Jesse Hartley's massive five-storey warehouses.

But this Classical temple-like building with Tuscan portico of cast-iron (columns, entablature, pediment and all) is not by Hartley, but by Philip Hardwick, designer of London's City Club, the late lamented Doric arch at Euston, and some of the architectural treatment of St Katharine's Dock.

The building, completed by Hardwick in 1847 and with a storey added by Hartley in the following year, had, like other buildings in the Grade I-listed Albert Dock complex, been empty and deteriorating for more than two decades. At one stage it appeared that the piles which support it might have deteriorated more than those of the five warehouse blocks, but in the event its structure proved to be relatively sound. Merseyside Development Corporation, freeholder of the whole Albert Dock group, repaired the shell

of the building and underpinned its foundations.

Building Design Partnership's Manchester office then restored and adapted the shell for their client, Granada TV. Externally, with its pink sandstone and red brick cleaned and the gilded letters "Granada TV News" glinting below the pediment of the massive cast-iron portico, it now looks splendid. But what of the interior?

That originally consisted of a central hall, two storeys high, lit from a huge skylight or lantern in the roof, with galleries at first-floor level. This hall — a double cube 60ft x 30ft x 30ft high — was flanked by twin spine walls, pierced by a series of panelled doors leading into the cellular offices on either side.

But how has BDP managed to convert such a splendid space into a hi-tech news gathering centre?

The answer is, it hasn't. The hall is beautifully restored — gallery, twin ranges of (un-needed) doors and all. Behind the 10 brown panelled and polished doors are video screens, computer keyboards and other 1980s office hardware. The hall itself can be used for functions, and even for filming, but it is essentially "as was" — except that the light which floods into it no longer includes natural light from above.

The real tv box of tricks — consoles, computers, control room, satellite receivers and the like — is hidden away in that third storey added by Hartley. A fat computer floor stuffed with cables lies above the grand hall's present ceiling; a smallish dish aerial hides discreetly behind one of the monumental chimney stacks which are upward extensions of those two spine walls.

BDP associate Ken Muth, who was the project architect, takes as much satisfaction in the ingenious technical solutions

needed to reconcile architectural conservation with his use as in the actual restoration itself.

It required some "structural gymnastics" to produce a structure capable of supporting the computer and the chimneys.

This included temporary demolition of top-storey walls, temporary supports, chimneys on needle piles, insertion of concrete beams, concrete deck to carry computer floor.

The plant back-up for a 24-hour-a-day computer operation was also needed. Ventilation and power needed to be duplicated in case of failure. BDP ended up with four air-handling plants — between the chimneys, one in basement, and one with extract actually in the portico. The new electrical substation is set ground in front of the entrance.

David Hight, general manager of Granada's Liverpool operation, believes he has the most advanced sophisticated news studio equipment in Europe, with news staff of 40-50 and around the clock.

But he also takes great pride in a 130-year-old building so fully restored and helping bring back life and glory into England's largest Grade I buildings — were, less than 10 years ago, abandoned and mouldering.

Client: Granada Television; architects and structural, mechanical and electrical engineers: BDP; project architect: Ken Muth; partner in charge: Chapman; project architect: Muth; project assistant: McCall; job engineer: Greg Nolan; mechanical, electrical, Dave Belton; surveyors: Gleds; Manchester contractor: Fairclough & Co; cost: about £1.6m (excluding works).



Rebuilt main hall, and (inset) before work began.

To the partners and associates of Douglas Marriott Worby & Robinson, Powell Moya & Partners, Ardin & Brookes & Partners, Gordon Benoy & Partners, Broadway & Malvan, Nicholas Lacey Jobst & Hyett, Cecil Denny Highton & Partners, Seymour Harris Partnership, and Chapman Taylor Partners.

**LHT** LHT Anodisers Limited

*Re: The Colourbox*

Next Tuesday, you'll each receive a small package. Please take the time to open it and discover the Colourbox — a unique collection of anodised finishes that offer all the traditional benefits and confidence that you'd associate with top quality anodising; but with one big difference. Colour.

There are eighteen sophisticated shades to choose from, each with the quality and depth that only anodising can provide. The Colourbox from LHT Anodisers Limited. See it, you'll believe it.

Until Tuesday then...

LHT Anodisers Limited  
Wellington Road, Uxbridge  
Middlesex UB8 2BP  
Telephone (0895) 53282

ENQ 21810N PAPEREN  
ENQ 21810N PAPEREN

## What do these have in common?



The sealant used was based on Morton Thiokol LP Liquid Polysulphide Polymer. This has been the base for the production of high quality construction sealants for more than thirty years. It has also been the base for high quality Insulated Glass sealants for more than twenty years. The structures illustrated show successful contracts around the world, from near Arctic to tropical locations.

For further information, contact us:

**THIOL CHIMICALS**  
Division of Morton Thiokol Limited  
Station Tower, Station Square  
Coventry CV1 2GH  
Telephone: 0203 21213  
Telex: 311412 Thicov G

A subsidiary of Morton Thiokol Inc.



RECENT decades have seen the architectural profession riding at the crest of a building boom one moment and floundering in the trough of recession the next. And while the larger practices tend to have an inherent ability to ride these fluctuations, it is the small and medium sized offices, whose viability can often rest on the profitability of a single project, which suffer most.

Only when we get down to the one-man practice is there sufficient flexibility to ride with the waves. Working from home, perhaps supplementing income with some part-time teaching, the opportunity to take on assistants when necessary, and an understanding bank manager are probably the key factors to ensure viability.

Tim Bruce-Dick recently celebrated the 10th anniversary of his small practice, which at times has seen him working with just two assistants and in more profitable periods has peaked at eight staff.

Brought up on the west coast of America, his formative influences included the Spanish-style buildings of Santa Barbara, the Beach Boys and Walt Disney (his step-father was a Disney cartoonist/ animator). Returning to the comparative class of Edinburgh University, he enrolled to study history and became a devotee of the Italian Renaissance art. And he fulfilled his ambition and transfer to the architecture school. He sought the advice of Robert Matthew, then head of the department. "My dear boy, Michelangelo was 42 and I was 39 before we put up our first buildings," he was told; so Prince-Dick finished his history degree. He came to London in 1963 to join the Architectural Association.

Mies and Corb were the gods, Cedric Price was on his way to becoming a demigod, at the very least, and the staple diet was of "sheds" and "complexes". "It was almost as if we were being brainwashed," confesses Bruce Dick.

His most influential tutors included Patrick Lichfield (of Stout & Lichfield), David Bernstein (fresh from Kahn's

Project team on site at Basil 'Champneys' house: Dick Pearce (mechanical engineer), Corajon Stonor (architectural assistant), Steve Wickham (structural engineer), Belinda Bruce-Dick (landscape and interior designer), Tim Bruce-Dick and Paul Jeffreys (project architect), John Cowan (quantity surveyor). (Photo: Geoff Beeckman).

ntier), and in 1969, his final year, Peter Cook, Contemporaries then were John Young and Marco Goldschmidt, now both partners of Richard Rogers, and Bruce-Dick's thesis project was for a steel housing scheme, "heavily influenced by Habraken". Not until a friend gave him a copy of Venturi's *Complexity and Contradiction* did Bruce-Dick feel his formal education was under way.

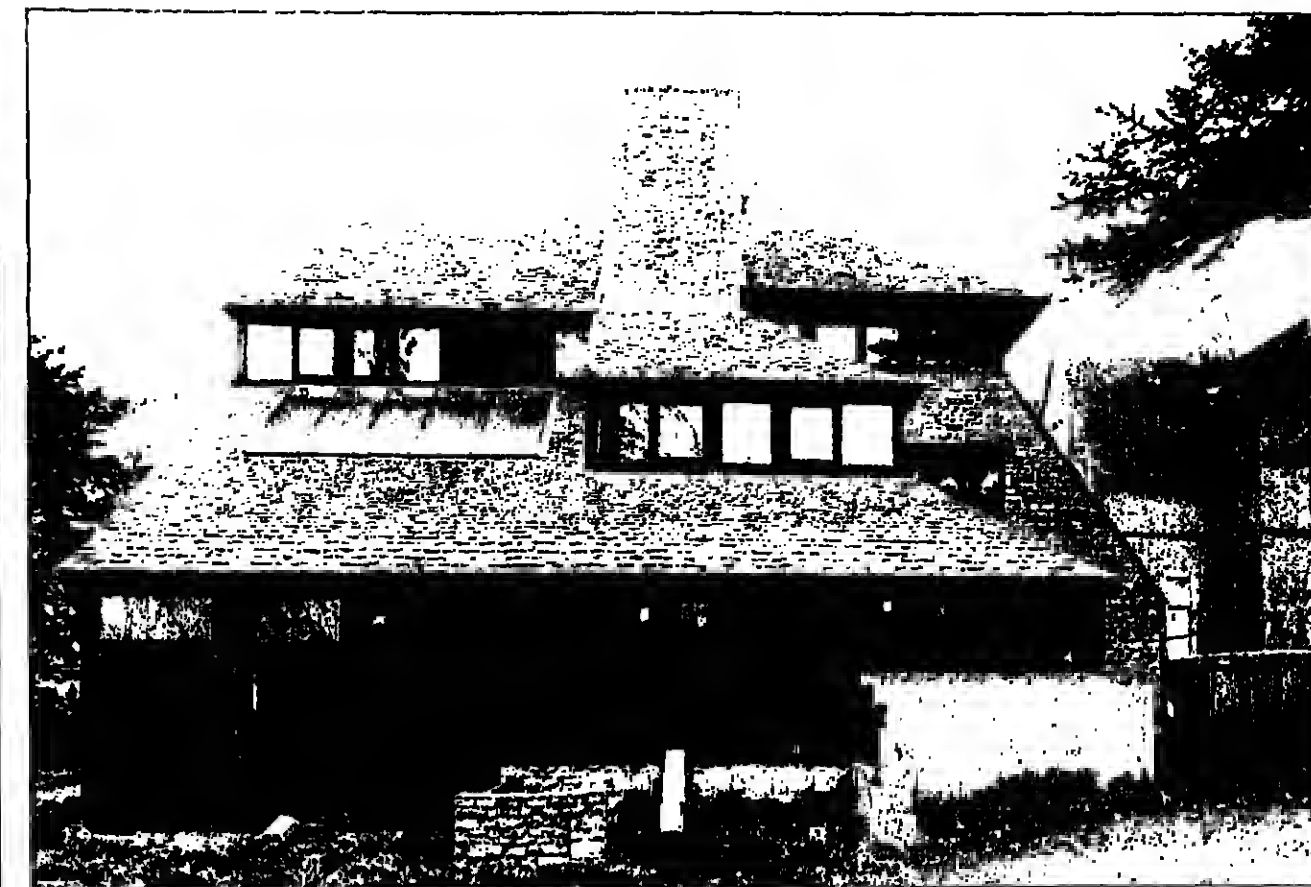
After a year with the London Borough of Lambeth's architects department, Bruce-Dick joined Arup Associates, "a marvellous education", where he met engineers and quantity surveyors, including Sam Price and Robert Myers, with whom he still works regularly. As a job architect for the housing and maintenance/refuse depot for the London Borough of Kensington & Chelsea in Warwick Road, Bruce-Dick came to appreciate the complexities of putting together a major project.



**Louise Court housing, built for Lurlancy**

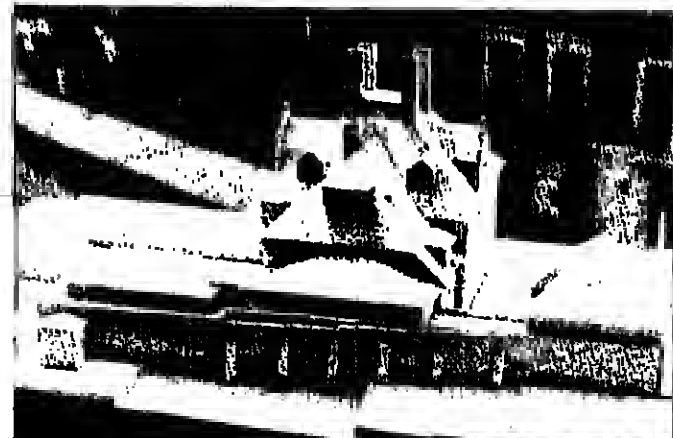
# HISTORY LESSON

**Ian Latham looks back over 25 years in the life of a small practice.**



House at Upper Heyford, self-built by the client.

**INSURANCE ISN'T  
THE ONLY THING  
THAT MAKES  
DERBIGUM ROOFING  
SUPERIOR...**



Model of Champneys' house extension, with swimming pool on the left and garage with flat over on the right.



Lithograph of entrance front of Basil Chinnipnays' house in Hampstead.



Sedgfield Enterprise Centre Co. Durham. 11,000m<sup>2</sup> Derbiolum SP Roofline



Southern Water Authority, Fareham, Hampshire.  
Architect—Derek Lovejoy & Partners, Highcliffe, Dorset.  
Derbigny SP Red—Brown.

**DERBIGUM HAS  
MORE TEN YEAR  
INSURED ROOFS  
THAN ANY OTHER  
ROOFING  
MATERIAL**

OVER 10 MILLION M<sup>2</sup> LAID IN THE BRITISH ISLES SINCE 1971... OVER 200 MILLION M<sup>2</sup> LAID WORLDWIDE



**Ashley Garrard, London SW1**—Managing aspects Grass Elm + Kruger Chaffin, 1,700m<sup>2</sup> Durigum SP Roofline



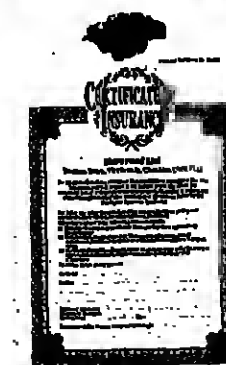
**Invergordon Distillers Ltd., Deansston Whisky Bond, by Downe.**  
**4,000m<sup>2</sup> Darbiqum SP Roofing**



600m<sup>2</sup> Dairblum SP Roofing

## WHY USE A HIGH PERFORMANCE ROOFING WITH NONE OR LITTLE INSURANCE?

**...INSURANCE  
COVER FOR  
10 YEARS WITH  
DERBIGUM  
ROOFING**



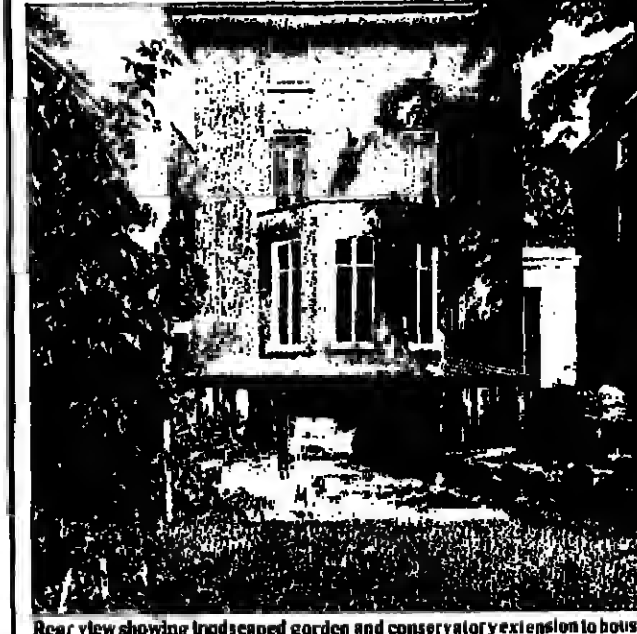
**Cornhill Insurance PLC**  
are the insurers of  
**Europrof Ltd**



**Barroff Ltd**  
Denton Drive,  
Northwich,  
Cheshire CW9 7LL  
Tel (0906) 48222  
Telex 580205



### Conservatory extension to house in St Johns Wood

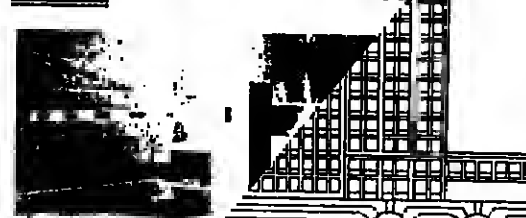


Rear view showing landscaped garden and conservatory extension to house in St John's Wood.



# TEI COMV

## New from Telefunken



Entry by Peter Colomb, Judith Tranter and Tim Bruce-Dick, river elevation; Inigo Jones meets Giulio Romano and Sansovino.

## Lesson

are picked out in dark medium stain, which ends the colour of the brickwork. Anxious to avoid the associative effects of a standard municipal insignia, Bruce-Dick asked a woodcarver friend, Howard Raybould, to produce the nameplate for the block.

As local authorities have had to cut funding for housing rehabilitation programmes, Bruce-Dick has come to rely on private clients for commissions. These have varied in type and scale from a discreet 2.6m side addition to a house in Regents Park Road comprising a bedroom, bathroom and kitchen, to the restoration and extension of a fine Victorian house in Hampstead.

Set against two other architects for the latter job, the practice undertook some detective work. They had noticed a carved brick plaque on the side of the building with the inscription "BC 1881". Paul Jeffreys, then assistant in the office, searched through the RIBA library and came across a reference and picture of the house — built by the eminent architect Basil Champneys for himself.

A speculative scheme was then produced for the extension. It included a swimming pool, complete with a special slide from an upstairs balcony straight into the pool — a novel feature that appealed to the client, who subsequently commissioned the practice. The scheme has gone through several stages, not least because of the sensitive nature of the house and its setting, but the fact that the main building would be

carefully restored from its shabby subdivided state back to a single dwelling meant that the extensions were accepted. Some brickwork, sills and timber window frames have been renewed — and the plaque has even been moved, with the agreement of the historic buildings officer, to the opposite side of the house in a more prominent position, mimicking that indicated in the original perspective drawing.

But the most substantial changes, approaching completion, have entailed the construction of an extension across the back of the house that incorporates a new garage with flat above, a swimming pool with associated changing facilities, and a staircase with bathroom upstairs — and the balcony which overlooks the pool. Despite its inevitable size, this extension fits in comfortably with the house, its massing and materials responding sympathetically to the original, yet in a relaxed manner that has allowed for a distinguished and special volume over the pool. There has evidently been a disproportionate investment of time in "getting it right", to which the sensitive result bears witness.

The practice's conservationist skills were also put into effect in the restoration and reinstatement into one dwelling of five flats of a fine stucco-fronted house in Kensington, parts of which were in an appalling condition and virtually uninhabitable. All the rooms were painstakingly restored and the staircase repaired with cast aluminium balustrading following the original pattern. The

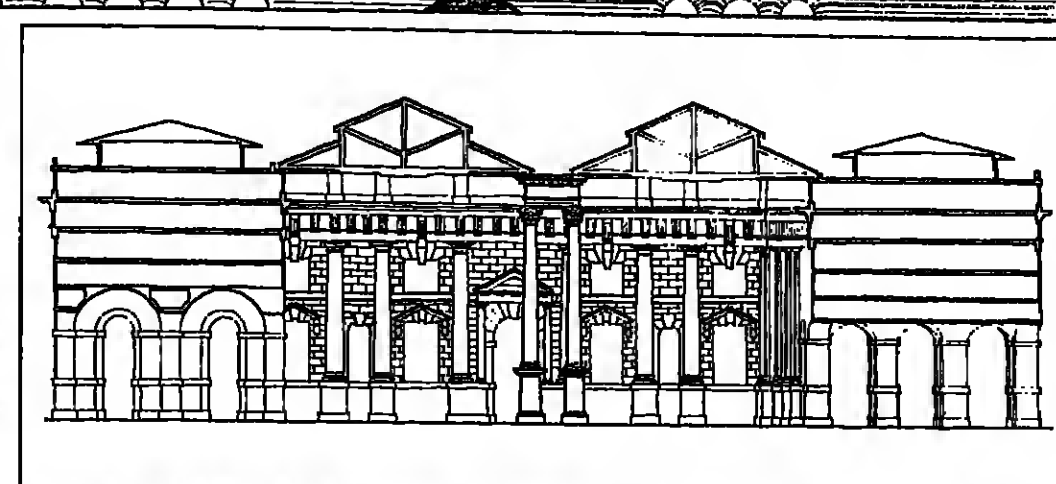
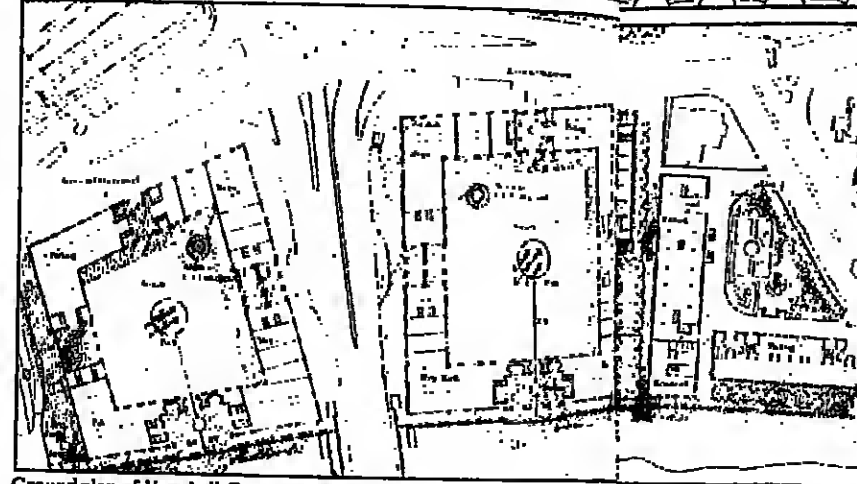
rear was tidied up and a new stair housing was added to an upper terrace in the form of a pavilion — or miniature Palladian villa — built entirely from off-the-peg Magnet doors.

Rather more scope was promised by Bruce-Dick's commission to extend a house in St John's Wood. A spectacular glazed conservatory plays out into a new sunken garden terrace, opening up the rear part of the house to the western sun and forming a spacious family room that responds directly to the busy, yet informal, family lifestyle.

The extension, kept to one storey in accordance with the

requirements of the Eyrac Estate, freehold owner of the house, is planned to form a large kitchen and dining room and conservatory that can be either divided off from one another or opened out into a multi-purpose space. Moreover, a new spiral staircase provides direct access to the formal living room above and glazed conservatory plays out back to open the conservatory to the garden terrace enclosed by steps and four levels of cascading pools in a symmetrical arrangement. The brick bay of the living room is now supported by the cranked beams that define the form of the conservatory in an elegant and

Ground plan of Vauxhall Cross competition entry.



Sectional elevation through typical block, Vauxhall Cross competition. Sketch drawing by Peter Colomb.

## Insulation problem?



## The experts' solution is in the Styrofoam Plan

Whatever the thermal insulation requirements of your latest project, the Styrofoam Plan will complement your expertise.

We offer a range of more than 17 products, each with its specific application. But in addition, we can design products tailor-made to meet new and unusual problems.

We have the technology to produce insulation in thicknesses from 20mm-200mm. In densities from 20-50kg/m<sup>3</sup>. With many surface finishes and edge treatments. To meet your individual needs.

Made of blue extruded polystyrene foam, Styrofoam Plan products, with a uniform closed cell structure, provide an ideal combination of thermal and mechanical properties:

**Low thermal conductivity.** Lambda values range from 0.024 to 0.033 W/mK. You can meet regulations at minimum thickness.

**High compressive strength.** ranging from 100 to 700 kN/m<sup>2</sup>. It can stand on its own without reinforcement, even under heavy load conditions.

**High moisture resistance.** No additional moisture protection needed. It resists long term freeze/thaw cycling without disintegrating.

**Durability.** Styrofoam\* products will not rot, degrade or compress. Insulation value is maintained for the lifetime of the building.

**Economy.** Styrofoam products stand up to handling on-site and are easy to cut and fit. You save on installation time and on-site supervision.

For every insulation problem, there's a solution in the Styrofoam Plan; backed by The Dow Chemical Company and 30 years of insulation experience.

To find out more, call the Dow Construction Products Centre on the Dow Insulation Hotline: 021-705 6363

### ROOFMATE PR

The experts' solution for pitched roof insulation

Roofmate® PR sarking board is installed at rafter level, partly overlapping and slotting between the rafters. Unlike the cold roof (ceiling level) insulation technique, the roof space is warm, protecting the structure from condensation and thermal stresses as well as all services from freezing. The rigid closed cell structure panels have a low thermal conductivity (0.025 W/mK). They are easy to cut, handle and install to provide insulation that lasts the life of the building.



Enter 45 on Express Enquiry Card.

### ROOFMATE LG

The experts' solution for lightweight flat roof insulation

Install your thermal insulation and roofing finish in one fast, simple operation with Roofmate LG. These unique lightweight panels have a 10mm layer of modified mortar on the top surface, and interlocking tongue and groove edges for stability. No need for ballasting: just a single row of paving slabs around the perimeter for edge restraint. You can reduce roof weight by up to 75%. Roofmate LG panels are easy to install to provide neat and attractive roof surface.



Enter 46 on Express Enquiry Card.

### WALLMATE CW

The experts' solution for cavity wall insulation

Cavity wall problems are difficult and costly to correct once the insulation is installed. But new Wallmate® CW boards fit together permanently with shingle edges and are held flush to the masonry, maintaining a free cavity. Wallmate CW is tough. It stands up to rough handling on-site. Yet, it is easy to cut and fit around doors and windows. Used with medium density block work, a 25mm thick insulation board gives a U-value of 0.6 W/mK.



Enter 47 on Express Enquiry Card.

### FLOORMATE

The experts' solution for floor insulation

Floormate® is a specially designed floor insulation material with high compressive strength (200-700 kN/m<sup>2</sup>), minimising long-term creep. High insulation values (0.025 to 0.028 W/mK) give you the thinnest possible insulation layer. Floormate comes in three grades of compressive strength and thermal conductivity so you can choose the right insulation for any floor construction. The boards are tough, rigid, moisture resistant and non-degradable. Once installed, they perform to specification long-term, even under ground bearing floor slabs.



Enter 48 on Express Enquiry Card.

### PERIMATE DI

The experts' solution for basement insulation

New Perimate® DI provides a highly effective long-term insulation and drainage system in a single product. Vertical channels on the exterior side form the drainage system which has a resistant filter fabric to prevent blockage. Perimate DI has negligible water pick up and retains its high insulation values long-term. It is also resistant to soil acids, rotting and freeze/thaw cycles. The boards are fixed, in one easy operation, to the exterior of the underground structure. Backfilling can then be done with normal soil, without the need for gravel or drainage.



Enter 49 on Express Enquiry Card.

## STYROFOAM PLAN

The experts' insulation



\*Trademark of The Dow Chemical Company

Please send me more information about:

☐ Roofmate LG ☐ Roofmate PR ☐ The Styrofoam Plan

☐ Wallmate CW ☐ Perimate DI ☐ Floormate

Dow Construction Products, St Catherine's Court, 10 Herbert Road, Boffham, West Midlands B91 3RR.

Name \_\_\_\_\_ Title \_\_\_\_\_

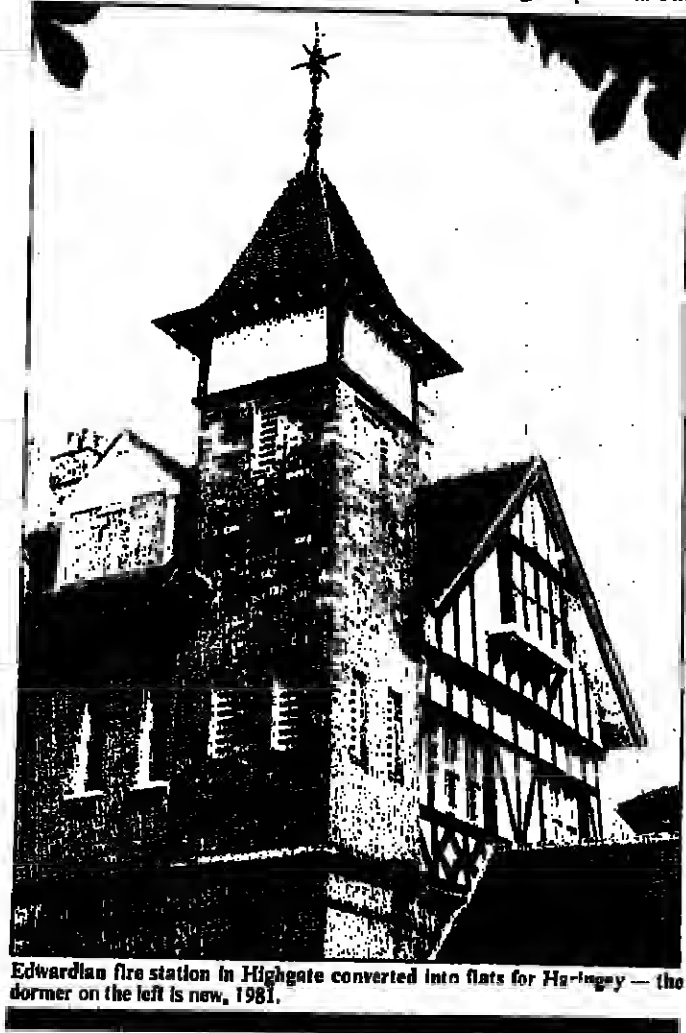
Position \_\_\_\_\_

Company \_\_\_\_\_

Address \_\_\_\_\_

V 06

800425 613/8



Edwardian fire station in Highgate converted into flats for Harrogate — the dormer on the left is new, 1981.

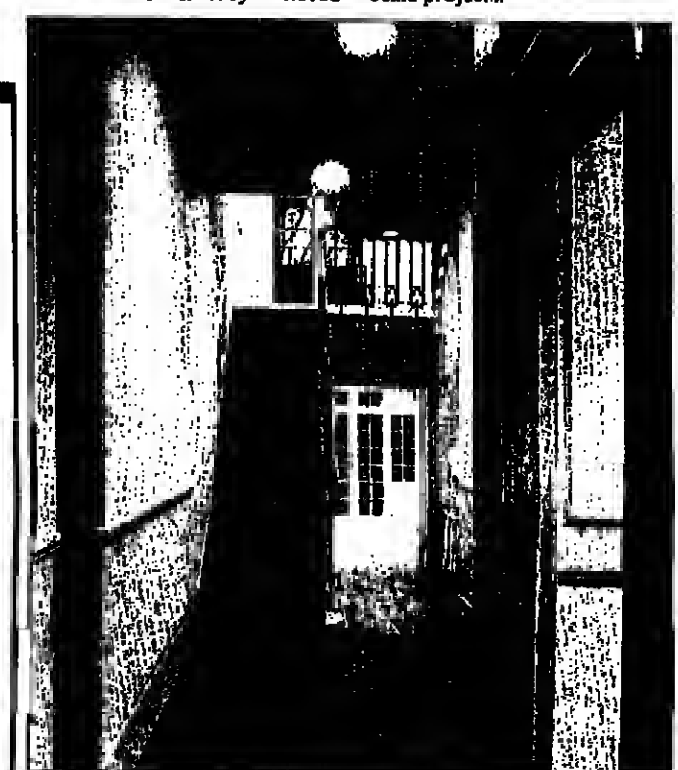
creative structural solution.

While Tim Bruce-Dick regards it as essential not to have preconceptions in terms of an architectural approach, some degree of continuity has been lent by his part-time teaching at Oxford Polytechnic, and it is from the school that most of his assistants have come. Each project is approached afresh, though the accumulative experience of working with different clients, contractors, sites and briefs informs the way the next scheme is handled.

Underlying all the work is a fascination for history — not so

much in an academic sense as in its understanding and interpretation. Bruce-Dick is a passionate believer in exploding myths; history teaches that buildings are basically "very straightforward", they are simply the technology of the time responding to the cultural influences of the time. The practice's approach is convincing in that it offers the opportunities for buildings to be referential without resorting to facsimile or pastiche.

It's a way of working that will be intriguing to test on larger scale projects.



View of staircase hall in restored Kensington house.



Detail of staircase in restored Kensington house; new cast aluminium balustrades match the original pattern.



## Urbanism

KANSAS  
CANVAS

Will Alsop presents his painted prescriptions for attracting people back to the centre of Kansas City. (Photos Geoff Beeckman.)



Shops, single person apartments, carpark and wall — in the street.

Mobile wall to make streets into programmable rooms.



Street table served by kitchens.



City Bath: rooms full of water.

AS the Chevrolet cruises slowly into Main Street you are aware of being alone. The middle of the city can give you a severe bout of unwelcome privacy. The city contains an odd mix of dilapidated buildings, cheap stores, rehabilitated historical structures and new mirrored towers. The latter rise above the downtown plain waiting for tenants.

These anonymous edifices await the northward drift from the sun belt which is just beginning to produce a new air of confidence in many of the mid-western cities. The lovers of the sun and low-cost energy are returning to recolonise the cloudy north, repeating the same migration as many of the blacks earlier in this century. These new migrants will find scenes of downtown desolation to welcome them.

In Kansas City, Missouri, the blacks had their jazz bars where Charlie Parker and Sarah Vaughan's ghosts still lurk at Milltons, but these ghosts are not enough to capture the new members of the northern drift and make it a terminus.

For some cities it is too late: Muncie, Indiana, has consi-

tently tried to lure people back to the middle with financial incentives and token landscape/pedestrian schemes. Even so, the citizens prefer to drive down the strip on the north-west of town and parade and pose in Muncie Mall, particularly on a Friday night. The city is without a heart.

For these cities the only course of action is to empty downtown and concentrate on enhancing the strip. This results in a shift of emphasis on a new city centre, which to me seems wholly inappropriate for a nation which is usefully mobile.

Kansas City has not gone that far. The remains of downtown have a quality, topography and presence that suggest it is still worthwhile repossessing it. The conventional response to the rehabilitation of inner city areas is a five-point plan, as follows:

#### Improve and increase parking facilities

It is true that any consideration of an American city must liberally accommodate cars. Unfortunately it is this fact that has contributed to the downtown decline. Land prices tend to be very low, which allows the owners of buildings and developers to purchase adjacent plots, clear them and provide surface parking.

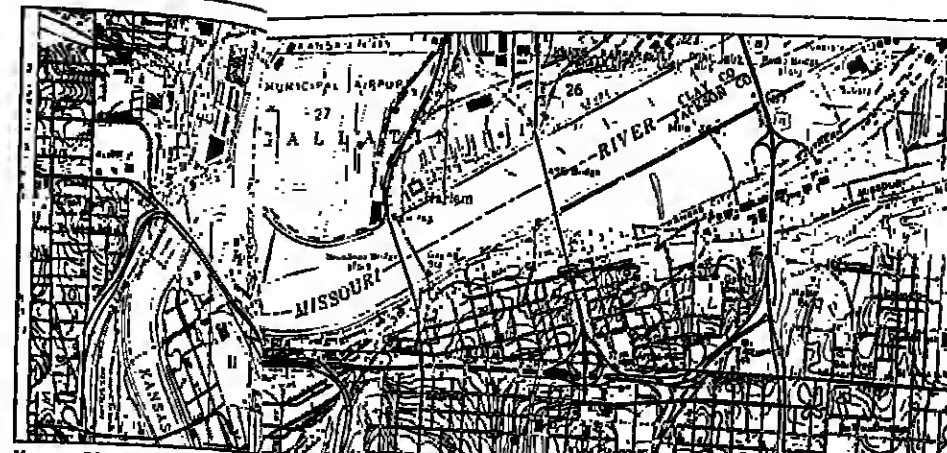
The multiple effect of this strategy is to lower the apparent density of the city, which makes a true urban scale, in spite of the large buildings, impossible.

#### Increase the number of inner-city residents

The popular solution to this problem is to attempt to build more housing. It is true that the American city, with its low land prices, can actually achieve the physical entity at realistic prices or rentals. The problems lie in persuading people to live in them because the downtown is perceived as unsafe. It is unsafe because of its emptiness. The number of eyes on the street has been reduced to a level where the city is blind to its own clandestine activities.

In Kansas City they have made an effort to produce downtown accommodation. Unfortunately, much of it is achieved through the rehabilitation of existing detached houses and the resultant scale is more akin to suburbia as opposed to the density required to cure the city's myopia.

Housing also requires other services close at hand to support living: schools, laundries and food bars. Kansas City has designated an area for housing.



Kansas City Plan.



Street cover supported by car park thereby committing the mistake of planners — the segregation of functions.

**Staggered working hours**  
This concept is obviously intended to maintain a larger number of people on the street at traditionally quiet times of the day. If staggered working hours are replaced by the flexi-hours, it promotes a more organic vision of downtown. It is the rigidity of the use of space which is the problem. Ultimately it results in an expected diurnal use which people respond to. Once the city is empty there is nothing to command a response.

#### Avoid single occupancy building

This is a particularly appropriate response for the American city. Many of the occupants of new downtown office buildings are peripatetic about security. They manage to create totally sealed environments that effectively deny their location in a central city. The glass is reflective, the door is protected and people pour in at the beginning of the day and decant themselves into the adjacent parking lot at the end of the day to give their evening presence to a suburb. They do not give themselves to the part of the city that they

inhabit for the sake of a salary. This could be avoided, in part, if single occupancy of a single building were prevented, then the building itself can be perceived as a city resource, suitable for plunder, that can respond to changing patterns of use within the inner city.

#### Increase numbers of eating and culture facilities

The majority of central locations to eat are certainly typified by the phrase "eat to live". They are aimed at the needs of the commuters who dream of their own suburban kitchen that will prepare supper later in the day. The vast majority of American restaurants in the mid-west are designed to get rid of you as quickly as possible. It is very difficult to find a place where you can linger and fill pleasantly that time between the end of a working day and the beginning of a dose of culture.

**Make it beautiful**  
"Beauty lies in the eyes of the beholder"... but who beholds it? Only those that go to see it.

These strategies on their own do not constitute a guarantee that the city will flourish. They do, however, pose the question of what they mean. Normally the architect is taught to keep an open mind and only engage it when confronted with a new situation or a cheque. This "good" practice assumes an air of research and as a result proposals and thoughts take on a new authority. Architecture is considered as a quasi-science that could be as good for you, if not better, than medicine.

When notions of urban design and planning are broached, the need for rules appears to become mandatory to the architect and planner. It seems that the larger the scale of the object, the more rules society requires to be observed. The result of this is that buildings cannot be designed with the freedom of paintings, or parts of towns and cities thought of in terms of a building.

Perhaps both building and town would benefit from the idea of a personality imposed upon them. Imposition is usually the result of a com-



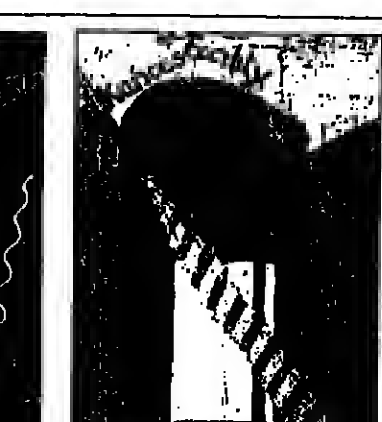
Bridge to West Bottoms.



Object against parking wall.



Study for end of carpark wall.



Public lavatory with structural tie.

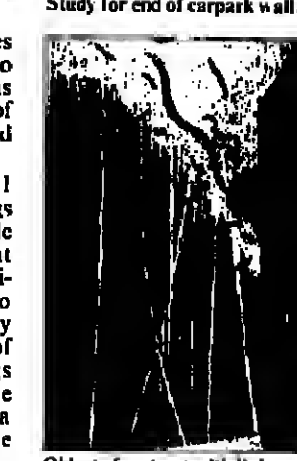
mittee. If rules exist to be broken, then they also exist to be exaggerated.

Could it be that the very existence of the rules, already laid out as the five-point plan (the sixth beautiful point is my addition) for looking at depressed downtowns could be the generator for exercising preconceptions?

I decided to explore Kansas City and its needs before ever visiting it. The paintings that illustrate this article were all done immediately before my visit. They record my ideas for a place that has lost its reason to be visited.

The paintings outline courses of action that could be taken to re-establish street life. This was my attempt to find a way of evolving a city plan that related to the act of painting.

In visiting Kansas City I found not one of the paintings irrelevant. I also found people willing to talk about the content of a painting containing possibilities for action as opposed to the usual reception that a highly drawn plan evokes in the form of sincere doubt. The paintings promote a participation in the observation and idea, not a reaction to what appears to be bland research.



Objects for street with lights.



Fish restaurant.

## BUILD BY THE BOOK WITH CELCON



openings can neatly be built with clean-cut Celcon fractions. Light though it is, Celcon Solar has a strength of 2.8 Newtons per square millimetre. Celcon Standard exceeds 4 Newtons per square millimetre and Celcon High Strength, 7 Newtons per square millimetre. In practice this means you can build a block of three-storey flats entirely from Celcon, including the walls below dpc.

Celcon blocks are made in big batches. They are loaded and unloaded mechanically in 1/2 cubic metre units. This makes for very fast, safe handling.

For the stockist and his small job customers, Celcon is shrink wrapped into small easily fork-lifted Handitaks.

The blocks are selected for these packs and totally enclosed in the factory so they come out dry and undamaged when the bricklayer unwraps them.

These are just a few of the useful bits of information you'll find in the Celcon brochure. A copy of the book is yours for the asking. Even when you've got it, don't forget the Celcon representative is always nearby ready with his fund of knowledge and practical experience or to take your problem to the Celcon technical service.

Clip the coupon, then you will have your own book of knowledge on Celcon.

Send coupon now to Celcon "Book of Knowledge Dept", Celcon House, 289-293 High Holborn, London WC1V 7HU for FREE copy of Celcon Technical Handbook.

Name \_\_\_\_\_  
Position \_\_\_\_\_  
Company \_\_\_\_\_  
Address \_\_\_\_\_

## CELCON

BUILD A REPUTATION

Head Office and Southern Region Sales Office: Celcon Limited, Celcon House, 289-293 High Holborn, London WC1V 7HU. Telephone: 01-242 9766.  
Northern Region Sales Office: Celcon Limited, P.O. Box No. 2, Power Station Road, Rugeley, Staffordshire. Telephone: 06894 3421.

One of the boring facts about Celcon is that you can do just that. Using a hand drill, or just an old-fashioned brace and bit, neat round holes can quickly be drilled through the full thickness of either Standard or Solar material.



The answer is the consistent bubbly structure. There are no hard lumps in Celcon. The bubbles are so small that they never become full of water. This gives rise to another boring fact: the blocks are almost waterproof.

Waterproof doesn't mean vapour-proof. This means that provided it's warmer on the inside of your Celcon built house than on the outside, moisture laden air will constantly travel outward. The block and the wall can breathe.

Breathing is an important thing to be able to do when a fire breaks out. With 100 mm. of Celcon between you and a conflagration, four hours could elapse before the air got too hot for your lungs to handle.

There is no magic in this; it's the simple thing that happens when you combine good thermal insulation with non-combustible ingredients.

Good thermal insulation is something the Building Regulations demand. The 0.6 standard can still be met by a real cavity brick wall provided the inner leaf is of 125 mm. Celcon Solar.

The fact that Celcon can be cut with a saw means that messy bodge which usually passes for a reveal at window



City laundry facilities to animate other functions downtown.



Street platform to give high level external space to taller buildings.



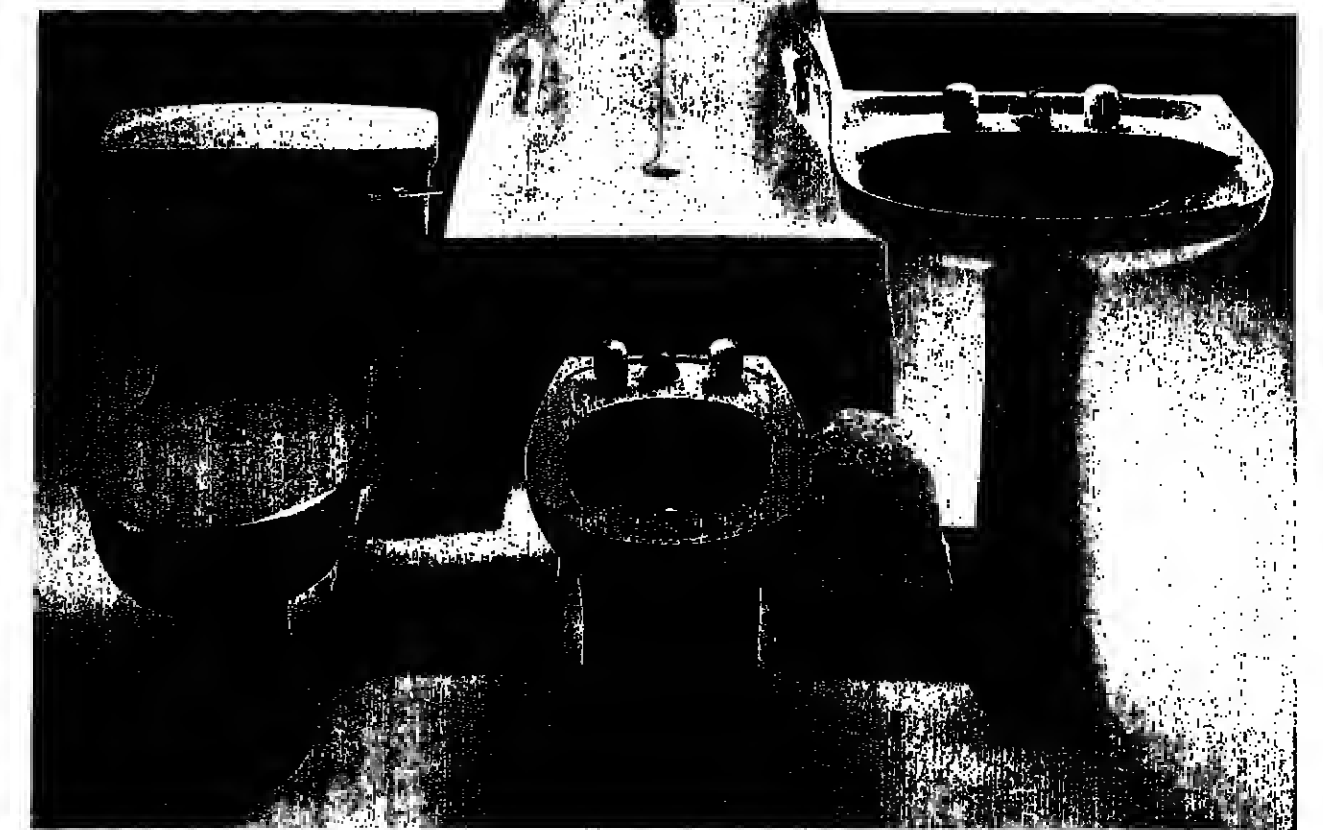
6 o'clock feed. Evening eating is too early in the mid-west.



6 o'clock feed. Evening eating is too early in the mid-west.

## TRADE TALK A

# Oyster starts a new trend in bathroom colours.



As you'd expect from Britain's No. 1, Armitage Shanks are always setting new trends.

And now it's a fresh look in bathroom colours with the launch of Oyster.

Oyster is a 'cultured' fashion grey that's certain to attract great attention from those with a well-defined sense of elegance and style.

Its grey tone reflects an aura of opulence, and like all Armitage Shanks colours will be available on an extensive range of accessories so that your customers can create a fully co-ordinated bathroom.

Make sure you're setting new trends with Oyster and Armitage Shanks; and take your share of the success during 1986.

## armitage shanks A

The one you know best

Armitage Shanks Ltd., Dept. BGD 604, Armitage, Rugeley, Staffs. WS15 4BT. London Showroom, The Better Bathroom Centre, 303/6 High Holborn, London WC1V 7LB.



## Books

Garters  
wine  
and art

By Robert Harbison

*The Brothers Adam: The Men and the Style* by Joseph and Anne Rykwert (Collins £15).

THIS is a frustrating book. When it is good it is exceptionally provoking and manages to draw together and illuminate disparate phenomena which have been inert, nerveless and without meaning. It also contains lapses, many minor, but all potential booby-traps for the unwary.

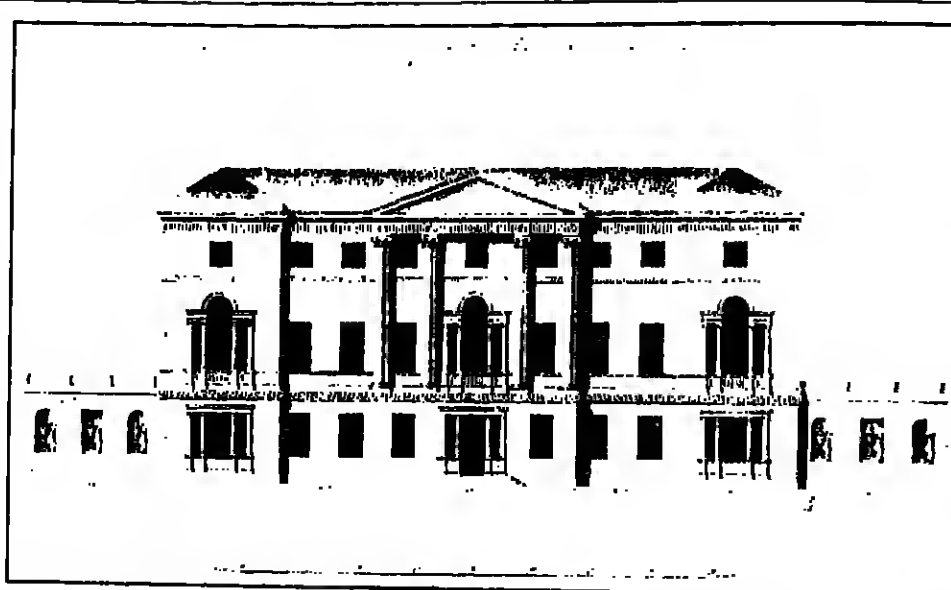
First its virtues. I have never read anything better on the transmutation of decorative motifs than discussions here of ceiling designs at Kedleston, Derby House, and Osterley. As everyone knows, decorative motifs were raised by the Adams to new importance: they devised

an architectural style which is really a form of evading or covering, an elegant scribbling on a transubstantiated surface, the English equivalent of the more violent, Continental rococo.

The Rykwerts remain ambivalent about this. Having committed so much time and thought to the Adams they are reluctant to see the work as two-dimensional ornamentation and no more, and so make unconvincing claims for "new ways of occupying space". Of course decor does infiltrate the spaces it provides the edges of, but only the rashest observer would single the Adams out as great plastic inventors.

Their "architecture" is highly pictorial, not in large representational motifs, but in drawing one's eye to minute inspection of linear pattern, in prompting delicacies of movement from the eye to match the nervous play of line in the design.

The nearest thing to convincing case for more than decorative achievement are the Rykwerts' persuasive descriptions of sequences of rooms in large London houses as well as palatial efforts in the country. But these are like a series of scene changes, a kind of kaleidoscopic variety with little relation



James Adam's design for Hangingshaw, Selkirkshire, 1768.

between the separate elements. They are not articulated, but strung like beads or trinkets, and so one is almost justified in calling the brothers scenic designers, not architects.

Joseph and Anne Rykwert's book is successful at showing the inter-connectedness of various projects, and one is now convinced that collecting antiques, designing rooms and replanning cities are part of a continuum, activities which all

belong under the rubric of civilising or ameliorating, a function one will regard as high or trivial depending on one's own vantage. Their most important claim runs somewhat counter to this: that the Adams, by exercising tight control over their craftsmen, give a crucial push to the long mechanisation of production.

Humanly, the most interesting part of the book is the account of Robert's and then

James' Grand Tour. The Rykwerts manage to make this oft-trampled ground more fertile than usual, and to fill one with a melancholy sense. It was the best time of Robert Adam's life, when he was relearning the disciplines he had already studied, from Clerissau and Piranesi and other teachers in the shifting, polyglot environment of Rome in the 1750s.

It is a tribute to the Rykwerts' interpretive skills that James' less serious and productive tour which follows is not an anti-climax, but a vigorously different encounter with foreign culture and new kinds of pretension. Like the Reynolds exhibition at the Royal Academy, these sections of the book give one the sense of 18th century culture as a vast drawing room in which everyone has a chance of meeting everyone else, in which Percy dedicates his *Reliques of old English poetry* to someone the Adams design for, and Horace Walpole knows almost everybody.

It seems the last moment in European history when a group of pampered Englishmen could sit around a table (in Reynolds' portrait of the Dilettanti) admiring Greek vases, ladies' garters, and the wine which is making them drunk indiscriminately, and could want to be seen doing it. It is a messier and less compartmentalised view of culture than most which have reigned since.

So far a view of a whole career in a deeper than usual sense, this book can be very good indeed. It is also good on strange byways of history, like a continuum running from 17th century vernacular Gothic to the earliest bits of learned or revived Gothic.

But it is strangely flawed — at times deeply considered, at others carelessly flung together. The proportions of the book, for instance, strain credulity. Early sections are leisurely — a long and not especially interesting portion given to the work of the Adams' father, even to a brief history of Scottish building in general. At some point a dizzy acceleration begins, and the last half of the career is covered at many times the earlier speed. Later projects are often listed, not described. The castle style, one of the most intriguing types of production, is whizzed through, the general theory being that it is rugged and "natural", but thoroughly antique, its models Diocletian's palace at Spalato, and Hadrian's Wall (the castles' near-neighbour) and that it has no Gothic flavour at all, an energetic reassessment few will entirely accept.

Text and pictures are in uneasy relation throughout; at the end the illustrated and undecorated, and mentioned but unillustrated occur more and more. First it should be said that the illustrations are fascinating and intelligently chosen, including a profusion of the gorgeous drawings, especially sections, now in the Soane museum. It is one of the few architectural

books which has almost as many plans as one would like. But so many projects are so minutely described and illustrated — Robert's early Gothic studies, sections of houses in a sea-tower somewhere in the land, a variety of domestic and other temporary structures, a late prison and coffee-house, an antique transparent illumination for the King's birthday.

The book's organisation sometimes runs amok. Its prose under different headings has not been rigorously graded. The treatment of the House in London stands as exemplar. It is full with confusing digressions — other projects for the same related patrons. Because a person had at different times two titles, he and the house, referred to by two names, the reader must work out, actually the same man, building. This problem is through the book. Captions, text often disagree about names of buildings and especially rooms. Some of these variances are slight: the House vs. Registry, the Entrance Hall vs. Grand Hall, but they are never a help.

More serious than this is confused by alterations: plans are referred to by some puzzling to decipher the crosshatch in Edinburgh University wasn't later moved, but never built in the first place. The reader is feeling the book has almost him into error. Which is a pity in a work that at other times synthesises so intelligently and speculates so fruitfully.

The second publication, a *Flat roof manual*, is prepared by Bickerdike Allen Partners with the Oxford Regional Health Authority architect and published by the NHS Continuing Education Unit in York. It is in complete contrast to the carefully measured advice from DES.

Hope for  
flat roof  
solutions

By Sylvester Bone

*Flat roofs criteria and methods of assessment, repair and replacement* by the DES Architects and Building Group.

*Flat roof manual*, prepared by Bickerdike Allen Partners with the Oxford Regional Health Authority architect, published by the NHS Continuing Education Unit.

TWO recent publications join Part three of the PSA's *Flat Roofs Technical Guide* to give us compatible and interrelated sources of advice on maintaining flat roofs. The new publications are based on a maintenance of schools and hospitals. They hold out the hope that major problems with flat roofs are now behind us.

*Flat roofs criteria and methods of assessment, repair and replacement* from the DES Architects and Building Group is based on schools maintenance programmes. It is as concerned to avoid unnecessary expenditure as it is to keep the roof out. We are told that new increased weight and modified coatings to polyester felt is not worth the extra cost in the situations and conditions covered by the study.

We are told that a repair to a roof if the defects are a "minor failure" rather than a "major failure". This important distinction crops up repeatedly throughout the publication and is the basis of a well considered strategy of repair which involves assessing the normal life of the roof covering and the special circumstances of different (mostly lightweight) construction. The question of thermal expansion and payback periods is de-

with at some length, partly to demonstrate that it is often not worth adding to the insulation when a flat roof is repaired. It should be remembered, however, that schools are heated intermittently and often not at all in holidays.

The DES design note series (this is No 46) has a reputation for clarity. Some (such as No 18 on disabled access) have become widely accepted as authoritative documents. This publication deserves the same recognition. It provides a methodical approach to the analysis of flat roof problems and gives examples of how the approach can be applied to "troublesome specifications". A last chapter on "areas for further research" suggests that we need to be better informed about:

- The effectiveness of flat roof defect detection methods — using the various measuring devices now available to locate dampness in the construction without opening up.
- The comparative performance of whole roof systems. Testing and a standard presentation of performance should be developed. The need is underlined by the disappointing experience with some early Agrément certificated plastic roof insulations and single layer membranes.

Whether cushioning sheets, which allow re-roofing without removing the chippings, are as effective as the makers claim.

The long-term effectiveness of sprayed insulation is another point that could well have been added to the list.

The second publication, a *Flat roof manual*, is prepared by Bickerdike Allen Partners with the Oxford Regional Health Authority architect and published by the NHS Continuing Education Unit in York. It is in complete contrast to the carefully measured advice from DES.

The Health Authority and a busy and knowledgeable consultant appear to have banded together parts of the documentation that they have used in the field, hoping that others would find it useful. In the main they have made the right decision.

There should be more of this sort of information available to improve the general competence of consultants. It is the sort of publication that RIBA Services should get involved with. In every office there are certain bits of paper that get picked up and used again each time a particular problem comes up. They may need to be adapted to suit the new job, even if they do, they provide a starting point and a route back to the experience gained on the previous job.

The *Flat roof manual* contains checklists and sample surveys which could save a good deal of time — as well as bringing out points that might otherwise be forgotten. It sets out sequences of decisions and the now conventional solutions of:

- Partially bonded or fully bonded first layers depending on the substrate.
- Two or three layers of polyester felt, depending whether partially or fully bonded.
- Lightly bonded chippings (with full bonding at outlets and verges).

After the clarity of the DES publication, the first impression of the *Flat roof manual* is one of middle. Pages and paragraphs are not properly numbered. There are too many flow diagrams asking what appears to be obvious questions such as: "Do you have resources to do this design work?" However, when the publication is seen as a compilation of work sheets still warm from the office, its value becomes apparent and with the familiarity the little nuggets of useful information become easier to find, especially as there is a good index and bibliography.

There is a rumour that rain penetration through external walls is now taking over from rain penetration through flat roofs as the building industry's favourite defect. If this is so, it must be because many of our worst flat roofs have already been dealt with and the new specifications now being used can, in the words of the DES, "give satisfactory performance for perhaps double the 20-25 year life previously considered to be the maximum for felted covering".

Shifting  
history's  
borders

By Ian Latham

*Encyclopaedia of 20th Century Architecture* (Thames & Hudson, £12.50).

THE low price of Thames & Hudson's familiar black-spined "World of Art Library" series has meant its titles have been accessible to recent generations of architecture students.

Standard issue was the excellent *Encyclopaedia of Modern Architecture* edited by Gerd Hatje and Wolfgang Peint and published in German and English in 1963. Packed with biographical and explanatory information by some 30 writers — together with 450 illustrations — the handbook offered the first and best introduction to the complex maze of 20th century architecture. Though reprinted several times, 23 years have passed since the encyclopaedia's appearance — drastic updating and reassessment is clearly overdue. The latest Thames & Hudson *Encyclopaedia of 20th Century Architecture* has duly appeared.

Over the past 23 years a plethora of books attempting to present an understanding of modern architecture have appeared as its doctrines have come under examination. Not least of these was Kenneth Frampton's *Modern Architecture: A Critical History*, also in the "World of Art" series. This excellent volume is now complemented by the new encyclopaedia.

While the overall format and length establishes the connection with its predecessor, the new book, now edited by the distinguished young writer Vittorio Magnago Lampugnani (and first published three years ago in Germany by Gerd Hatje) presents some major differences.

First the title has changed from *Modern Architecture* to *20th Century Architecture*, more because "Modern" has come to represent a particular, rather than inclusive, set of values. The range of entries remains as catholic but there are significant omissions, additions and reassessments.

Take the "A" listings. First, there are now 27 entries, rather than 16, covering some 23 pages, against 15. The total number of pages, incidentally, has increased more than proportionately.

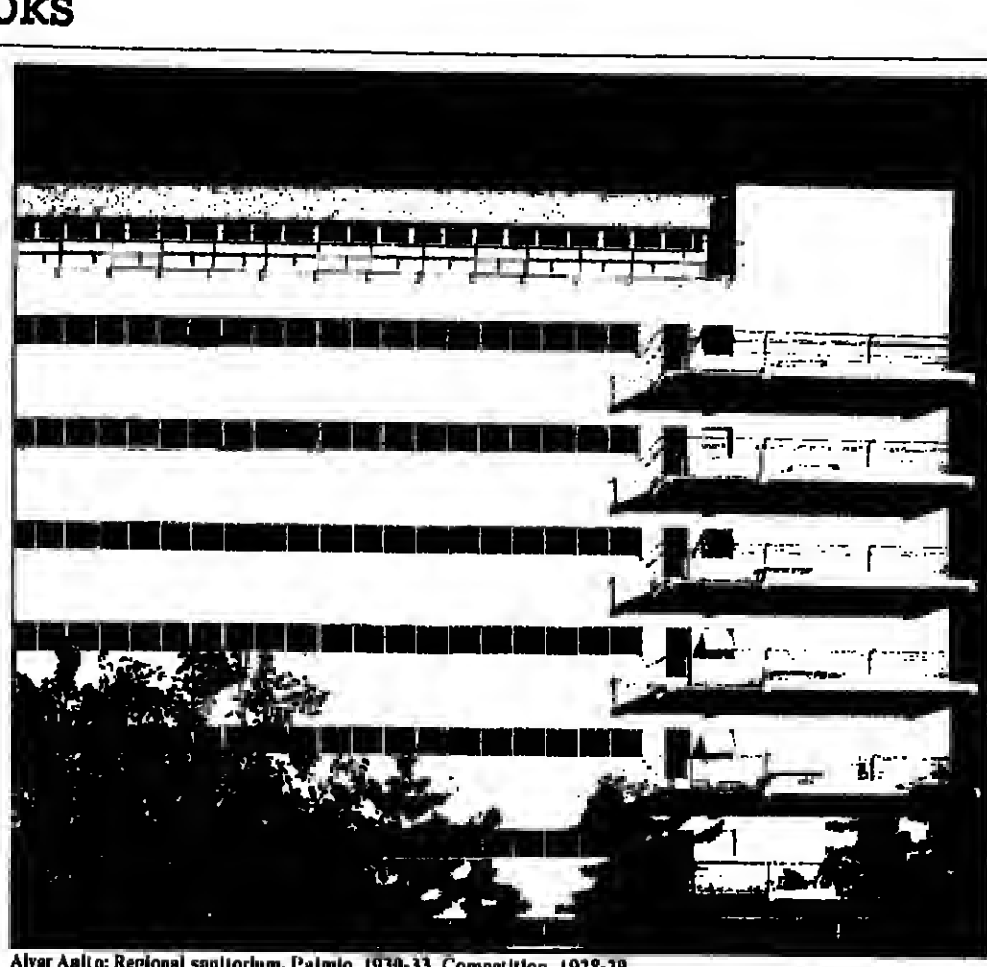
We have gained most entries simply in the process of updating: Aida, Aillaud, Alexander, Alvares, Andrews, Archigram, Architekt, Arup, Atelier 5, Aymonino, and Azuma — their selection indicates something about the inclinations of the editor, but such a discussion would require lengthier study. (Post-modernism, incidentally, does rate a tentative entry but it doesn't get as much space as Lampugnani's new entry on "Rational architecture" and "Rationalism".) We have also gained some entries as a result of what might be called a reassessment of

historical parameters: the Arabist far Khatib, Ali Debi and Ashbee are now included.

We have lost David di R. Aberdein, architect of the excellent TIC building (1953-56), one of London's most underrated buildings, and Alessandri Antonicelli, who died in Turin in 1888, and so has been excised in the title switch from "Modern" to "20th century".

We are left with 13 common entries, from Aalto to Anish Kapoor, all of which have been revised — usefully these now conclude with short bibliographies. Aalto's four pages, still written by Leonardo Mossa, have more words and are updated to acknowledge some recent scholarship (though not, intriguingly, Demetri Porphyrios' *Sources of Modern Eclecticism*). There are still seven illustrations, identical in subject but for the substitution of the interior of the Intra church by the interior of Riola di Vergeto (completed in 1978). The quality of these pictures, and the paper on which they are printed, has been greatly improved.

Sadly, the remaining difference lies in the price. While £12.50 must be good value, students are advised to await the inevitable paperback edition of this indispensable little book.



Alvar Aalto: Regional sanatorium, Paimio, 1929-33. Competition, 1928-29.

At last: a render you  
don't need to decorate.

Cullarend is a coloured render, texture, and weather protection all in one. Projection-applied in one single swift operation, it is fully compatible with all normal render substrates.

To have all the right ingredients accurately premixed in the same bag, needing only the addition of clean water, saves enormously on time as well as cutting out the guesswork that can cause variations in colour and consistency. Further time-saving comes from not needing to return at a later date to decorate — even when an immaculate white finish is required.

This one-coat technique also means that there is no risk of layers separating. Accidental chipping will never expose a different

colour, either, because Cullarend is the same colour right the way through.

Specification is simplified, too, because a single product specification is now sufficient to cover all rendering needs — internal as well as external.

Blue Circle's constant research and development and its unrivalled experience of the building industry are enabling today's plasterers to create ever better finishes in about half the normal time while eliminating the traditional 1-2 weeks' delay for curing and the need for decorating. The key: 'one-coat' application — not only in rendering but in plastering too.

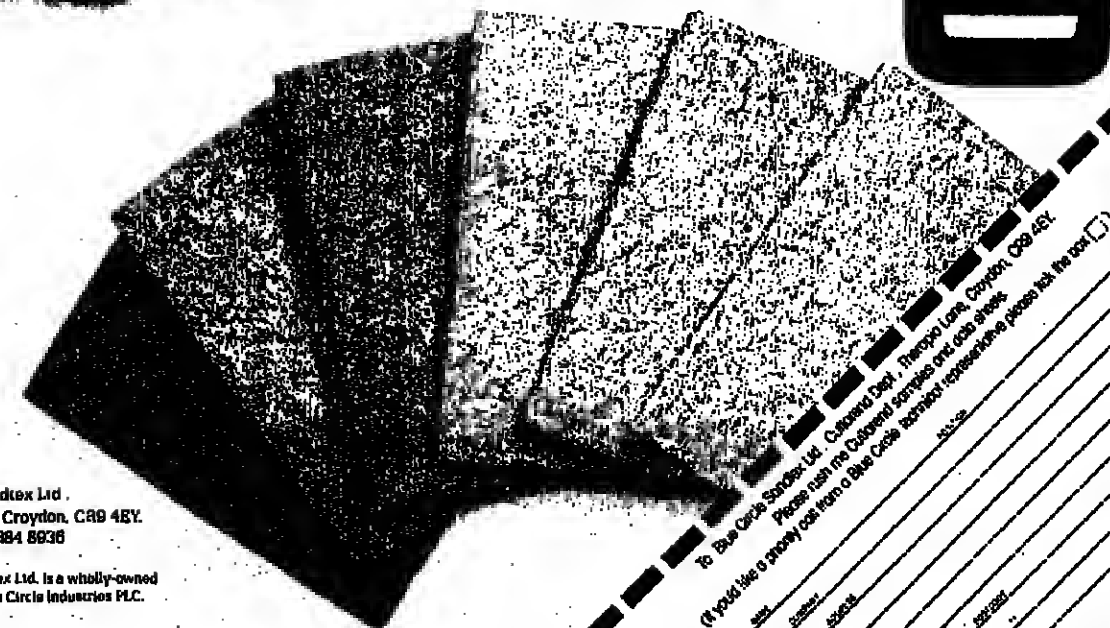
PRECISION PRE-MIXED RENDER, COLOUR, TEXTURE, WEATHER PROTECTION

■ The very finest traditional ingredients, precision-mixed in a 40kg bag ■ No more guesswork ■ No risk of colour variation ■ The plasterer simply adds clean water, mixes, and applies by projection in one continuous operation from start to finish, rendering as required ■ Completion time less than 48 hours (not 1-2 weeks, as with ordinary render and decoration) ■ No further decoration required — even to obtain an immaculate white finish ■ No risk of layer separation or of surface damage revealing a different shade: Cullarend is the same colour all the way through ■ Choice of 6 subtle colours in addition to white.

Specify Cullarend with confidence. For colour samples and data sheets, please post coupon today.

Insist on Blue Circle plastering products by name

Blue Circle  
— there's no better guarantee



\*Blue Circle Sanitex Ltd.  
Thorpelands, Croydon, CR9 4BY.  
Telephone: 01-884 8838

\*Blue Circle Sanitex Ltd. is a wholly-owned subsidiary of Blue Circle Industries PLC.

Times change  
and we change  
with them

**BUILDING 86**

5-9 OCTOBER 1986 EARLS COURT LONDON  
DETAILS: BUILDING 86, 11 MANCHESTER SQUARE, LONDON W1M 5AB TEL: 01-486 1951

The exhibition for these changing times

Enter 36 ON EXPRESS ENQUIRY CARD



## New products

Compiled by Harold Hudson

## Hay fever beaten by accident

WHEN Stirling Industrial introduced its air purifying and odour countering unit, Airmaster, last year, it was never thought that it could hold the secret which would bring relief for thousands of hay fever sufferers.

However, when the unit was examined by the National Pollen & Hay Fever Bureau, it was found to be capable of extracting from the air the grass pollen which is the cause of hay fever among six million people in the UK.

According to the bureau, the unit could be a "considerable benefit to hay fever sufferers and would appear to have a valuable role to play in the armoury of preventive measures available in hay fever sufferers both at home and in the office".

During tests the Stirling Airmaster was shown to remove 98 per cent of mixed pollens and achieved a 99 per cent rating when British Standard 2831 dust

particles were used.

Bringing the gap between domestic air purifiers with restrictive air flow and expensive electro-static or ionising units, Stirling Airmaster provides an effective localised air-conditioning system. It can also be used with a special long-life gel which imparts a subtle methol fragrance to the air to give decongestant relief to those already suffering from hay fever.

As we approach the annual season of discomfort for those suffering from this particular allergy, we can expect to see a rise in demand for Stirling's device, which can be in a mobile or fixed form and operates from a normal 240v electrical supply.

Harold Hudson

Enter 100 ON EXPRESS ENQUIRY CARD

If you would like more information on the products on these pages, fill in and return the pre-paid enquiry card.

## Bar system

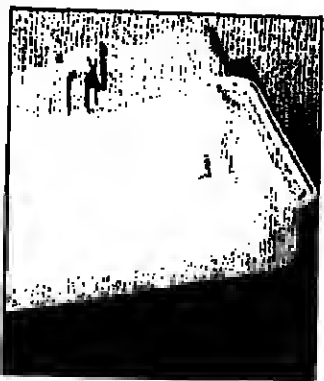


SUPPLIED in 1.5-metre modules, the Barmaid Bar system, recently introduced by the Barshop Group of Companies, can be quickly assembled, together with continuous bar tops and service counters, to create a fully fitted bar in the twinkling of an eye. Said to cost up to 25 per cent less than traditional purpose-built bars, these units, which come in various styles — traditional or contemporary — can be ready for service in as little as one day.

Enter 101 ON EXPRESS ENQUIRY CARD

## Luminaires

WHERE conditions are hostile and dust, moisture and corrosion are problems, the new Philips Lighting P11F 250K Kombi Pak provides a trouble-free solution. This energy-saving, high-frequency fluorescent luminaire has a Degree of Protection of IP55 and is expected to find particular relevance in loading bay areas, underpasses and garages. It can be used indoors or out, and is likely to be used in the food-processing business.



Enter 102 ON EXPRESS ENQUIRY CARD

## Sports luminaire



KNOWN as the SHF 250K Kombi Pak, this new energy-saving, high-frequency luminaire from Philips Lighting has been developed for use in leisure centres and sports complexes. It significantly improves visibility in fast-moving ball games, such as squash, tennis and basketball. This is achieved by the elimination of mains flicker by means of a solid-state rectifier/power oscillator, which replaces the conventional ballast and starter.

Enter 103 ON EXPRESS ENQUIRY CARD

## Carpet tiles

PROVIDING outstanding wearing qualities and considerable design appeal, Interact Flooring Systems' Debron Velvet is a fusion-bonded carpet tile with a Glasbac backing structure made up of a vinyl/glass fibre material. Qualities imparted by this backing include good dimensional stability, no buckling or curling and the ability to lay without gluing down. Tiles are made from 100 per cent ICI Timbrelle S nylon with excellent soil lifting and stain-resistant properties.

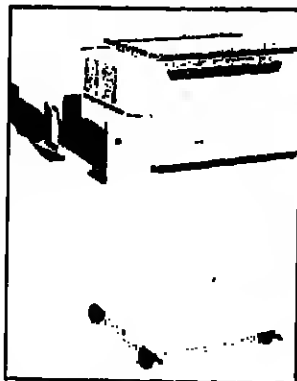
Enter 104 ON EXPRESS ENQUIRY CARD

## Torch-on roofs

SUITABLE for flat, sloping or curved surfaces, Aquagum is a new torch-on polyester based, modified bitumen roof covering. Introduced by BP Roof Cover. This material is exclusively installed by the company operatives and carries a 10-year guarantee. It is supplied in low-temperature flexibility and resistance to thermal shock. The introduction of this material enlarges BP Roof Cover's range of roofing, including Aquastar polyester felts and Aquathene single layer membranes.

Enter 105 ON EXPRESS ENQUIRY CARD

## Copier

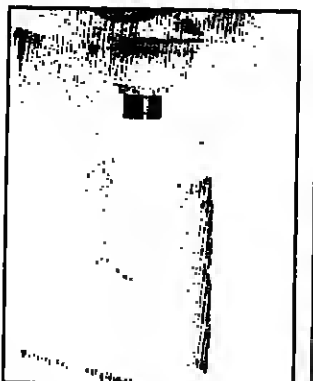


SELEX has introduced a new auto-exposure zoom reduction and enlargement copier — the Model 60AZ — which will produce 15 copies per minute. It zooms from 65 per cent reduction to 142 per cent enlargement and can be used instantly in full-size mode or three preset ratios. Its auto-exposure takes the guesswork out of copying difficult originals. The 60AZ comes with three paper cassettes for A4, A4R and A3 paper sizes and is suitable for those requiring up to 10,000 copies per month.

Enter 106 ON EXPRESS ENQUIRY CARD

## White waste system

COMPLEMENTING the range of Osma All-Fit traps and available in 32mm, 40mm and 50mm sizes, the new Wavin Building Products white Osma Weld, solvent-weld waste system has been launched after a period of test marketing in the South-east. It is manufactured in ABS, is strong and requires no painting or maintenance. Wavin has made this introduction in response to demand from plumbers.



Enter 107 ON EXPRESS ENQUIRY CARD

## Hand driers



AUTO-DRI and Aqua-Dri are new hand driers launched by M. Santoni. These Electrico Cond approved units deliver a stream of warm, dry, clean air and are said to be less costly and less messy than providing towels. Auto-Dri is a smaller, quieter unit appropriate in a smaller, quiet area. Aqua-Dri is a larger unit with a faster drying time and an additional face drying facility. Its tougher one piece design makes it extremely strong.

Enter 108 ON EXPRESS ENQUIRY CARD

## Reception chair

DESIGNED by Geoffrey I. Lurem, the new Artifort reception chair, Model 503, from Interspace has a pressed beech wood shell, upholstered in moulded foam and mounted on a five-star aluminium swivel base. Upholstery is in a choice of fabrics with leather trim in matching or contrasting colours. Its base can be polished or powder coated in one of Artifort's colours. A sister product, Model 504, has a circular metal pedestal base, with a powder coated finish.



Enter 109 ON EXPRESS ENQUIRY CARD

## Recessed luminaires

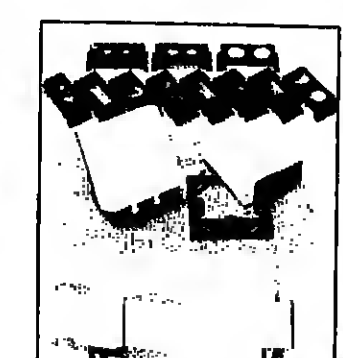


PHILIPS Lighting has introduced four new luminaires for use with its large PL energy-saving lamps. All have the benefits of small size and high light output. For recessed use in suspended ceilings with a 600mm module, the FCS 600 fitting is available with either two 24W or two 36W large PL lamps. The smaller version gives 12 per cent more light than a normal TBS 300 with four 18W lamps. Both types are fitted with low-brightness mirror controllers.

Enter 110 ON EXPRESS ENQUIRY CARD

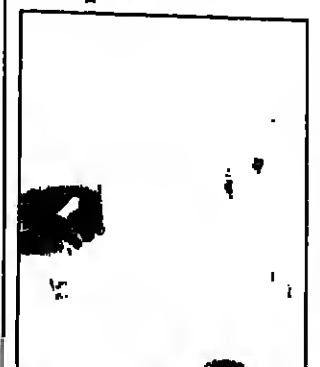
## Computer outlet

THORSMAN and Company has introduced a new range of computer outlet boxes — Databox TDL 80 — which, it is said, facilitates new installations and makes the undertaking of modifications to existing installations easy. Consisting of three components — cover, base and plate — TDL 80 is neat in appearance and has 17 different plates within the range to suit almost every type of computer.



Enter 111 ON EXPRESS ENQUIRY CARD

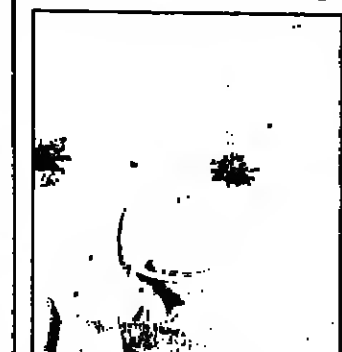
## Ellipse aid



DRAWING accurate ellipses can be a tedious and time-consuming business. Not, however, if you use the new Half Ellipse aid, available in this country from Cannon and Warr. Any size of ellipse can be drawn using this instrument, in any combination of axis lengths. Lines can be of any thickness and the instrument comes with a pen or pencil holder. The Ellipsograph comes in two sizes: 170mm x 110mm and 350mm x 230mm.

Enter 112 ON EXPRESS ENQUIRY CARD

## Bathroom suite



BALTERI Bathroom, with its Swedish partner, the Sanitar, has developed the Aqua bathroom suite which demonstrates fittings of Scandinavian design, modified to British requirements. The suite has a fire-free flush, three litres less than the conventional UK system, and saves water without loss of performance. The test of the suite consists of a twin-grip bath, bidet and three basin options. The colour range includes two velvet glazes — Pearl White and Pearl Grey.

Enter 114 ON EXPRESS ENQUIRY CARD

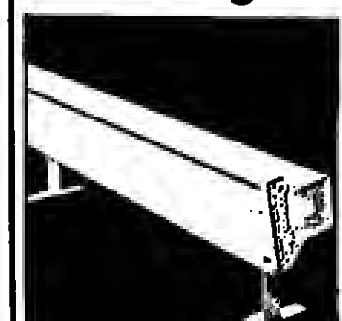
## Brackets

BAILLEYS Architectural Antiques has achieved a reputation for supplying genuine antique features rescued from old buildings being demolished. But it was discovered that demand for small decorative brackets far exceeded the supply of the genuine thing, and so the company commissioned the production of two designs of brackets, both made from original patterns. The brackets are cast in aluminium for strength, lightness and durability.



Enter 115 ON EXPRESS ENQUIRY CARD

## Exterior light



WITH a system of weatherproofing which is said to be unique and does not involve the use of screws, the Crownlighter Twin (CD Series) external weatherproof lighting unit from Bush Signs contains a double line of fluorescent tubes (900, 1,500 and 2,400mm long). Another new feature is the fixing bracket system which provides for angle adjustment and allows location of the fitting anywhere along the length of the fitting.

Enter 116 ON EXPRESS ENQUIRY CARD

## Office furniture

ABBOTT Brothers has announced the introduction of the dark oak 3000 range of executive office furniture. It consists of a double pedestal and single pedestal desk (2,134mm and 1,830mm), management and secretarial workstations, conference and occasional tables, credenza, bookcase and filing/telephone cabinets. Mirror finished chrome tubular legs contrast well with the dark oak to give a range which combines good looks with durability.



Enter 117 ON EXPRESS ENQUIRY CARD

## Waterproofing



CONSIDERABLY cleaner to handle than many black-based waterproofing coatings, Foundation coating from Thoro can be applied to below-ground structures, even when they are damp. It is cement-based, will stop liquid water penetrating the structure, but will let water vapour permeate outwards. It is tough and unlikely to be damaged by backfilling operations. Foundation Coating is applied in two coats, the first brush applied, the second trowelled on.

Enter 118 ON EXPRESS ENQUIRY CARD

## Clean floors

SPECIALLY suited to create "clean" floors in premises used by the food, pharmaceutical and electronic industries, the new synthetic resin floor surfacing product — Levelay HD40 — from Conren Chemicals is designed to withstand heavy industrial use and is capable of resisting attack from most chemicals — acids, alkalis, solvents oils etc. Laid in thicknesses from 3mm, HD40 can be applied as an overlay to existing, worn or obsolete floors.

DESIGNED to replace the conventional tap washer made of leather, fibre, synthetic or rubber with a hard, modifying the tip, the new Hydrosol washer incorporates a number of devices which greatly extend its service life, stop dripping and make turning easier. This Australian device, which has had great success since its introduction there in 1984, uses the water pressure to help make an effective water seal. It does not rely on physical force to compress a washer, but uses an O ring which moulds to its sealing.

Enter 119 ON EXPRESS ENQUIRY CARD

Enter 120 ON EXPRESS ENQUIRY CARD

## Steel is ideal

RP Tubing by Mannesmann incorporates the latest technology in construction and design aimed to meet the advanced needs of today. Some of the advantages of using modern welded steel profiles include:

- Slim line design
- Greater life expectancy
- Load bearing properties
- Durability
- Thermal stability
- Clean finish
- Ease of maintenance
- Wide range of sizes

The RP Tubing by Mannesmann is available in a wide range of sizes and is ideal for a variety of applications. It is available in a wide range of sizes and is ideal for a variety of applications.

For more information, contact Mannesmann Tubes (UK) Ltd, 100, The Quadrant, London W1A 1AA.

Telephone: 01-262 1234. Telex: 940000. Fax: 01-262 1234.

RP Tubing by Mannesmann is a registered trademark of Mannesmann Tubes (UK) Ltd.

© 1986 Mannesmann Tubes (UK) Ltd. All rights reserved.

RP Tubing by Mannesmann is a registered trademark of Mannesmann Tubes (UK) Ltd.

© 1986 Mannesmann Tubes (UK) Ltd. All rights reserved.

RP Tubing by Mannesmann is a registered trademark of Mannesmann Tubes (UK) Ltd.

© 1986 Mannesmann Tubes (UK) Ltd. All rights reserved.

RP Tubing by Mannesmann is a registered trademark of Mannesmann Tubes (UK) Ltd.

© 1986 Mannesmann Tubes (UK) Ltd. All rights reserved.

RP Tubing by Mannesmann is a registered trademark of Mannesmann Tubes (UK) Ltd.

© 1986 Mannesmann Tubes (UK) Ltd. All rights reserved.



## New products

## Anti-graffiti paints



TWO new anti-graffiti coatings — Andura Flake and Andura Spatter — have been introduced by Anderson Industrial Paints. Both have attractive appearance and long-term durability. They form a hard, impermeable, tile-like surface from which graffiti can be easily removed using a special solvent cleaner.

Enter 121 ON EXPRESS ENQUIRY CARD

## Floor tiles



FOUR embossed designs and a choice of 12 colourways — three to each design — this sums up the new Regency floor tile range recently launched by Marley Floors. Suitable for all parts of the house, Regency tiles are 300mm square, are asbestos-free and have a clear wear-layer which gives good resistance to marks and staining. Available in packs of 50, these tiles should be laid in accordance with BS Code of Practice CP203.

Enter 124 ON EXPRESS ENQUIRY CARD

## Office lighting

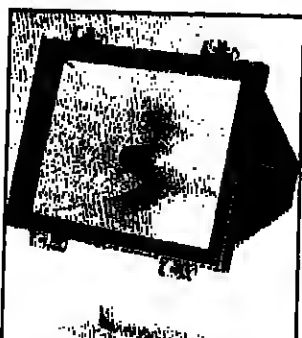
SUPERTUBE 90° is a Swedish lighting system which is said to be a simple way of achieving excellent standards of desk lighting. Using this system, which is available in the UK from LDMS of South Benfleet, even distribution and light where it is wanted can be ensured. Specially designed inuvres effectively shield the light source, eliminating the risk of glare, and being based on fluorescent lamps, SuperTube 90° is economical.



Enter 122 ON EXPRESS ENQUIRY CARD

## Floodlights

TWO new tungsten halogen floodlights, the FMH 900 and the FMH 1250, have been introduced by GTE Sylvania. With a parabolic reflector of high grade anodised aluminium, these lights give maximum sustained light output. They have a die-cast aluminium housing coated with a corrosion resistant black polyurethane powder coating. The front glass is tempered to resist thermal shock.



Enter 125 ON EXPRESS ENQUIRY CARD

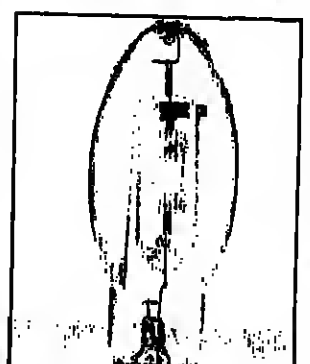
## Amenity luminaire



SUITABLE for security and amenity uses on walkways and around a building perimeter, the Tam-lite luminaire from Tamworth Electrical Engineering contains an energy-efficient 18W SOX lamp to minimise running costs. Manufactured in vandal-proof polycarbonate, with a clear controller and black base, this unit can be wall or post mounted, either directly or via a corrosion resistant angle bracket.

Enter 123 ON EXPRESS ENQUIRY CARD

## Metal halide lamp



NATURAL white light with excellent colour rendering — this is the claimed output of the new 100W Metalux metal halide lamp from GTE Sylvania. It can be used base up or base down in situations where high wattage incandescent lamps are used. Applications include retail store merchandising, hotel foyers and lobbies, banks and for landscape fittings (bollards, decorative post precinct lighting etc).

Enter 126 ON EXPRESS ENQUIRY CARD

## Data round-up

AFTER a short apparent absence of activity the British Board of Agrement has launched its first new format Agrement certificate. This development was motivated by the increased recognition given to the Agrement concept by the new Building Regulations for England and Wales. The first new format certificate, for Pilkington Drithern cavity wall insulation, contains colour-coded sections denoting those parts of the UK to which the text refers.

Three additions have been announced by the British Standards Institution. BS 5228 Noise control on construction and open sites has had a Part 4 added to it. Code of practice for noise control applicable to piling operations. This recommends noise control measures which can be adopted to ensure good practice and enable piling to be carried out economically with as little disturbance to the community as possible. The cost of Part 4 is £22 (£8.80 to members).

A new Part 0 has been added to BS 5306 Fire extinguishing installations and equipment on premises. This part, entitled Guide for the selection of installed systems and other fire extinguishing equipment, presents in one document guidance that is now spread over the complementary seven parts of BS 5306. Advice is given on the selection, installation and maintenance of automatic water sprinkler and spray systems, carbon dioxide and halogen systems, foam and extinguishing powder systems, installed equipment for fire service use and the application of portable fire extinguishers. Cost £31 (£12.40 to members).

Clay and calcium silicate brick flexible pavements are covered by a new standard, BS 6677 Clay and calcium silicate pavers for flexible pavements. Part 1 Specification for pavers deals with the requirements for the pavers themselves; Part 2 Code of practice for design of lightly-trafficked pavements looks at design of the sub-base, roadhouse, bedding course and wearing surface, edge restraint and

drainage; Part 3 Methods of construction of pavements gives advice on simple construction techniques. Parts 1 and 2 cost £14 (£5.00 to members) and Part 3 costs £5.50 (£3.80 to members).

Superseding the 1979 edition and maintaining its progressive management, the new Part 1, set out a suitable method of rating documents concerned with the specification of reliability of constructed or manufactured products, systems, equipment or components. The revised standard now covers systems containing software, whereas the previous edition was written mainly in hardware terms. BS 5760: Part 1 covers £31 (£12.40 to members).

Because BS 5606: 1978 Code of practice for accuracy in building has been misunderstood and misinterpreted, the code has been revised. Pending the revised version's publication, a couple of amending paragraphs have been published in AMD 4995 which point out that, for the standards to be used in dispute procedures, a must have been specified by the designer and not merely implied, then only if the buildings in question have been designed in accordance with the standard.

All BSI publications can be obtained from the Sales Department, BSI, Linford Wood, Milton Keynes MK14 6LE.

IRE has published Digest: Domestic draughtproofing ventilation considerations, which sets out several simple checks that should be made before draughtproofing to ensure adequate ventilation is still being maintained for the health of the building's occupants.

From the same stable comes new information papers. IPI's Reliability of underground basements in the UK is primarily addressed to owners and operators of district heating schemes, as well as the architects and consultants. Generally IRE found that these schemes compared well with conventional installations in performance and maintenance costs. But a few schemes were notably expensive to maintain.

IPI 2/78a Porous aggregates in concrete: Jurisate lineations examined the quality of concrete made with this type of aggregate. It found that the concrete was generally strong and frost-resistant, but gained little durability from air entrainment.

Finally from the IRE, two Defect Action Sheets. Both deal with suspended timber floors. DASH 13, Remedying dampness due to inadequate ventilation and DASH 14 Remedying rotting joists. Both design action sheets and their index describe precisely their content.

All IRE publications can be obtained from the Publications Sales Office, IRE, Clarendon, Watford WC2 3JR. Digests cost £1 each. Information Papers 75p each and Defect Action Sheets 50p each (or £12 per year). All publications will be supplied post free on orders over £2.

The Royal Institution of Chartered Surveyors has published a useful booklet for anyone involved in performing or commissioning large-scale surveys. Specification for surveys of land, buildings and utility services at scales of 1:500 and larger presents methods of ensuring that the nature of the work required is specified. If none of the options in the booklet provides a useful aide memoire to ensure nothing is left out. The booklet can be obtained from the Surveyors' Publications, Norden House, Basing View, Basingstoke RG24 2HN, price £7.50 plus postage.

A new code of practice for ironmongery fittings for fire resisting and emergency exit doors has been published by the Guild of Architectural Ironmongers. This is the result of concern expressed by the guild over the poor quality and unsuitability of some ironmongery used and the fact that there is no unified national approach to the problem. The 68-page code of practice costs £17.50 (inclusive of postage and packing) and is obtainable from the Guild at Stepney Green, London E1 1UL.

## This Week's Advertisers

USE EXPRESS ENQUIRY CARD BETWEEN PAGES 44 & 45

The enquiry card opposite is a simple easy way to obtain information on manufacturers' products or literature in this issue. Postage is FREE and we pass your enquiry on to the manufacturer within 24 hours of receiving it. The number of enquiries and the quality are a barometer for advertisers to gauge how Building Design performs for them. So make sure that any product or service you need information on you use this card.

**PLASTERBOARD**  
PANEL SYSTEMS LIMITED Enquiry no 40  
Page 41

**ROOFING**  
EUROPEAN PROFILES LIMITED Enquiry no 17  
Page 18  
EUROROOF LTD Enquiry no 29  
Pages 28, 29  
MARLEY ROOF TILE CO LTD Enquiry no 20  
Pages 18, 19

**ROOF WINDOWS**  
VELUX COMPANY LTD Enquiry no 25  
Page 24

**SEALANTS**  
THIOLKOL CHEMICALS LIMITED Enquiry no 27  
Page 28

**SECURITY**  
TELEFUSION COMMUNICATIONS Enquiry no 30  
DIVISION Page 30

**STRUCTURAL FIXINGS**  
BAT BUILDING PRODUCTS LTD Enquiry no 23  
Page 22

**STRUCTURAL TIMBER**  
SOUTHERN FOREST PRODUCTS ASSOCIATION Enquiry no 10  
Page 9

**TILES**  
FOLLANS BEE (UK) LTD Enquiry no 39  
Page 40

**VENTILATION**  
VENT-AXIA LIMITED Enquiry no 3  
Page 3

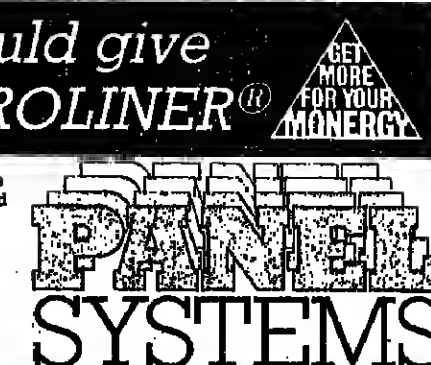
**WOOD PROTECTION**  
SAOOLIN (UK) LTD Enquiry no 32  
Page 31

Some Cockneys in Islington could give you the 'Wedgie Benn' on STYROLINER®

'Wedgie Benn - Oo'. That's the strange way they speak in that part of the world, but they only speak highly of the benefits of Styroliner even though they've never heard of it. That's because they are tenants of residential flats recently refurbished in the London Borough of Islington. The tenants benefit from increased warmth, lack of damp and peacchi atmosphere as a result of this highly thermal efficient and moisture resistant plasterboard and Styroliner-bonded panel. The developer was able to benefit from

the simple to handle and easy to install qualities of this modern, versatile material. Use your 'loaf of bread' and specify STYROLINER® for building economy and energy conservation.

PANEL SYSTEMS LIMITED, Units 3-5, Welland Close, Parkwood Industrial Estate, Radand Road, SHEFFIELD S3 9QY. Tel: (0742) 752881. Telex: 847811 Tolpan.



PANEL SYSTEMS

ON EXPRESS ENQUIRY CARD

## TEGOLA TILES — LONG LIFE, LOW COST ROOFING AND CLADDING

Tegola Tiles are produced by Europe's largest manufacturer of glass fibre reinforced bitumen roofing tiles, and are made to specifications higher than the European and American standards. They have the top fire rating, have an insurance backed warranty on parts and labour, and therefore give a guaranteed long, maintenance free life. Tegola Tiles are available in the widest range of shapes and colours (single and two-tone), including the copper Prestige tile, and therefore offer a solution for every roofing and cladding project from the economic to the historic. The product is lightweight, easy to install and available from stock.

**Follansbee**

Follansbee (UK) Ltd., 123 Lonsdale Drive, Oakwood, Enfield, Middx. EN2 7LS. Tel. 01-367-6463

Enter 39 ON EXPRESS ENQUIRY CARD

## ALUMINIUM COPING

ALIFABS Page 7

Enquiry no 8

## ANODISED FINISHERS

LHT ANODISERS LIMITED Page 27

Enquiry no 28

## ADVISORY SERVICE

ARCHITECTURAL ADVISORY SERVICE CENTRE Page 5

Enquiry no 6

## ARCH FRAMES

TRULINE BUILDING PRODUCTS LTD Page 12

Enquiry no 13

## BASEGROUT

POZZOLANIC LYTAG LIMITED Page 42

Enquiry no 41

## BATHROOM COLOURS

ARMITAGE SHANKS LTD Page 35

Enquiry no 35

## BRICKS AND BLOCKS

CELCON LIMITED Page 34  
YORKSHIRE BRICK COMPANY Page 25

Enquiry no 34

Enquiry no 26

## BUILDERS

VIC HALLAM PLC Page 11

Enquiry no 11

## BUILDING BOARD

BRITISH GYPSUM Page 4, 5

Enquiry no 5

## CLADDING

BACO CONTRACTS LTD Page 55  
COLEBRAND LIMITED Page 38, 39  
ETERNIT BUILDING PRODUCTS LTD Page 13

Enquiry no 44

Enquiry no 38

Enquiry no 14

## CONSTRUCTION

HALL & TAWSE CONSTRUCTION LIMITED Page 8

Enquiry no 9

## DECORATIVE PAINTS

BERGER DECORATIVE PAINTS Page 14

Enquiry no 15

## DOORS

CRAWFORD DOOR LIMITED Page 23

Enquiry no 24

## DRAFTING SYSTEMS

VISTEC BUSINESS SYSTEMS LTD Page 13

Enquiry no 50

## DRAINAGE SYSTEM

CLAY PIPE DEVELOPMENT ASSOCIATION LTD Page 45

Enquiry no 43

## EXHIBITION

BUILDING '86 Page 38

Enquiry no 36

## FIRE PROTECTION

PROMAT FIRE PROTECTION CO LTD Page 21  
3M UNITED KINGDOM PLC Page 20

Enquiry no 22

Enquiry no 21

## FLOORING

STRESSLINE FLOORS LIMITED Page 19  
TRENT JETFLOOR LIMITED Page 43

Enquiry no 12

Enquiry no 42

## FURNITURE

TECNO Page 16

Enquiry no 16

## GLAZING

SOLAGLAS LIMITED Page 17

Enquiry no 19

## INTERNATIONAL TRADE FAIR

COLLINS & ENDRE8 Page 31

Enquiry no 31

## INSULATION

DOW CONSTRUCTION PRODUCTS Pages 32, 33  
VENCEL RESIL LIMITED Page 2  
CELOTEX LIMITED Pages 6, 7

Enquiry no 33

Enquiry no 2

Enquiry no 7

## LIFTS

STANNAH Page 4

Enquiry no 4

## LOUVRE SYSTEM

AIRSTREAM ENVIRONMENTAL PRODUCTS LTD Page 1

Enquiry no 1

## MICROFILM SYSTEM

TECHNICAL INDEXES LTD Page 16

Enquiry no 18



## Technical literature

## Promotions service

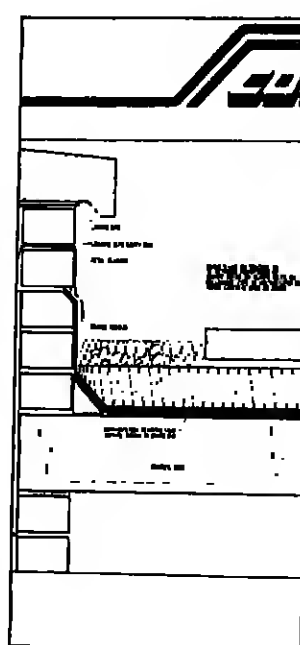
FORMED by marketing man Michael Goulet, the Architectural Promotions Service offers a monthly newsletter to subscribers detailing a particular aspect of architectural promotion, plus news and reviews of architectural marketing matters. Extra services are available, but costs have been kept to a minimum (£30 per year for the basic material, which includes a "do-it-yourself" questionnaire to highlight your marketing strengths and weaknesses.

THE  
ARCHITECTURAL  
PROMOTIONS  
SERVICE  
APS

Enter 128 ON EXPRESS ENQUIRY CARD

## Flat roof guide

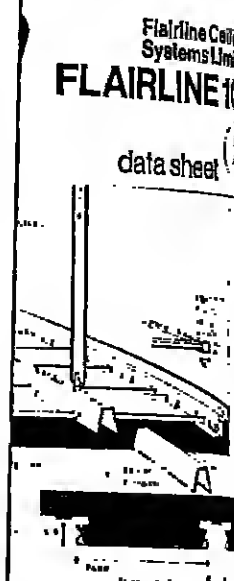
COLAS Building Products has published a Specifiers' Guide to Callenders Olympic high-performance roofing systems. These are based on TR350 and TR125 membranes, formed of polyester carriers and modified bitumens. The guide gives product data in a clear and concise manner and backs up this information with a series of workmanlike detail drawings. These are also reproduced on tracing paper, one detail per A4 sheet, stored away in a pocket on the back cover. These drawings should prove a useful draughting aid.



Enter 129 ON EXPRESS ENQUIRY CARD

## Suspended ceilings

A USEFUL and well illustrated data pack is available from Flairline Ceiling Systems Ltd. This includes a series of data sheets including details of Flairline's Xtraspun, Fluorocel 100 and 200 and Flairline 100 systems. Some of the subjects dealt with in the sheets include curved ceilings in the Flairline 100 system, recess panels and integrated lighting in the same system and details of the support methods. So often information on suspended ceiling systems leaves areas of doubt in the specifier's mind. Not so in this case.



Enter 130 ON EXPRESS ENQUIRY CARD

## Vinyl flooring

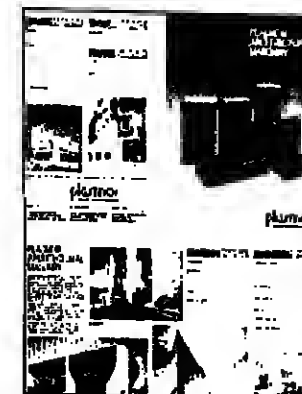
FULL details of all James Halsewood's vinyl sheet and tile floorings, including the newly introduced Polyfloor Super XL, are included in the new Polyfloor contract flooring brochure. Accompanying this is a technical information leaflet, which is a practical guide to the installation and maintenance of Polyfloor floors. It includes sections on subfloor preparation, adhesives and end-user specifications.



Enter 135 ON EXPRESS ENQUIRY CARD

## Concrete masonry

DETAILING is a new range of architectural masonry. Plasterer's recently published colour brochure sets out the wide variety of possibilities which emerge when the range is used. Plasterer's masonry is available in 10 colours in plain or stippled finishes. It is manufactured from naturally occurring aggregates in a full range of unit types — hollows, half length hollows, solids, reveals, quoins and lintels. Minimum effort can be expected, according to Plasterer's.



Enter 139 ON EXPRESS ENQUIRY CARD

## Escalators

A GENERAL brochure dealing with its products and services has been published by O & K Escalators. The company is part of the Orenstein and Koppel Group of West Germany, but is an autonomous British company. The brochure gives an indication of the prestigious locations where its equipment has been installed; such places as Lloyd's Centre in London, Heathrow and Gatwick airports and in underground developments in Glasgow and in the Tyne and Wear Metro.



Enter 141 ON EXPRESS ENQUIRY CARD

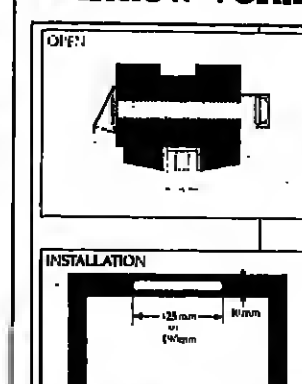
## Torch-on roofing

MARLEY Waterproofing has published a data sheet dealing with its range of APP Torch-On high performance roofing membranes. In all, there are four grades of Marley APP — 200S, a glass fibre underlay, 300S, 400S and 400M, all polyester products, the latter with a green granule finish. APP torch-on membranes are able to absorb considerable building movement without cracking.

For further information on the products on these pages, use the pre-paid enquiry card.

Enter 142 ON EXPRESS ENQUIRY CARD

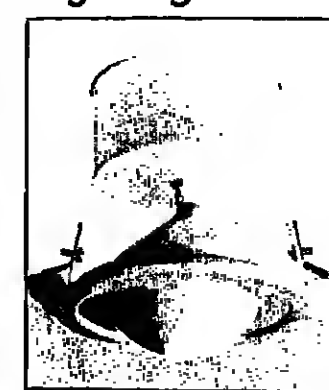
## Window ventilator



LATEST of Greenwood Airvac's publications comes a two-page data sheet dealing with its recently introduced window ventilator, Biube-Slotvent. The sheet covers the product construction, dimensions, performance and method of fixing. Biube-Slotvents are manufactured from satin anodised aluminium with black plastic end mouldings and controls. They come in two lengths (420 and 585mm) and are easily fitted into the top frame of a wood, steel, aluminium or upvc window.

Enter 140 ON EXPRESS ENQUIRY CARD

## Lighting



LOW voltage tungsten halogen luminaires are the chief addition to this year's catalogue published by Beta Lighting. Miniature spotlights in various shapes, sizes and modern colours and metal finishes, a new range of transformers for integral and remote locations and a large selection of spotlights — are all included. In addition, Beta is introducing three new recessed downlights, including a fully adjustable eyeball with its own in-built transformer.

Enter 136 ON EXPRESS ENQUIRY CARD

## Cubicles



BUSHBOARD has published a six-page leaflet dealing with its recently introduced bushboard cubicles and changing room cubicles, shops and public buildings. A major feature of the system is its ability to give a custom-built appearance, despite being a standard cubicle. This is achieved by a range of postformed facias in standard colours which complement and contrast with cream floors and partitions.

Enter 131 ON EXPRESS ENQUIRY CARD

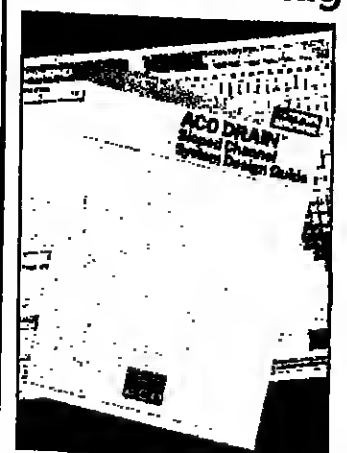
## Thermal vinyls

LEYLAND has published a new pattern book of Superbass luxury thermal vinyl wallpapers. The new collection of thermal vinyls includes 41 colourways, comprising 23 delicate colours and 18 white variations — all available from Leyland's national network of Trade Centres in retail lots or minimum orders of four boxes. The expected life span of this collection is one year.



Enter 132 ON EXPRESS ENQUIRY CARD

## Surface drainage



ACO Polymer Products, a major leader in the manufacture and supply of polyester concrete surface water drainage systems, has published a new guide to the correct hydraulic use of its products, entitled *Sloped channel system design guide*. This provides detailed statistics on flow rates, discharge capacity and total outflow for ACO's range of sloped drainage channels, allowing the designer to be assured of a cleansing system.

Enter 133 ON EXPRESS ENQUIRY CARD

## Special bricks

BAGGERIDGE Brick, the West Midlands brickmaker with an extensive range of high quality facing and engineering bricks, including the traditional Staffordshire Blue brick, has issued a 12-page brochure, entitled *Special shaped bricks*. It illustrates all the BS special shapes, complete with full dimensions, and explains Baggeridge's policy of making purpose-made shapes where necessary to suit customers' needs. Baggeridge holds stocks of the most common special shapes.



Enter 134 ON EXPRESS ENQUIRY CARD

## Line it with Basegrout, not money

Basegrout is an accurately controlled pre-mix blend of pulverised fuel ash and cement, produced in fully automated plants.

Pre-batching eliminates costly cement wastage; and increased flowability due to particle size and shape, makes for economical on-site handling and reduced wear on plant and machinery.

The versatility of Basegrout as a fill or a stabilising material provides both the contractors and specifiers with a wide range of performance specifications and applications.

Basegrout can be effectively utilised in:-

**Structural and non structural void filling** for abandoned sewers, mine shafts, tunnels, pipelines, culverts, basements, heating ducts and abandoned bridges.

**General purpose grouting** behind tunnel linings and in mini tunnels. For use under a variety of conditions.

**Stabilisation** for brick hardcore, shingle beaches, embankment batters and pre-placed aggregates.

**Methods of delivery** Basegrouts can be supplied in a variety of methods to suit individual site requirements:-



● By bulk tippers in a moistened state for ease of handling.

● In 25 kilos bags supplied in one tonne pallet loads.

● By one tonne bags with a bottom discharge point for site convenience.

● By pressurised containers delivering up to 20 tonnes for discharge directly into site silos.

**Handling** Moistened Basegrout is usually handled in two ways — by direct gravity placing (SLUICING) or by PUMPING.

For gravity placing, it is tipped from lorries adjacent to the void to be filled and then sluiced into position using high pressure water.

For pumping, the Basegrout is tipped from a lorry into a tank, extra water is then added and the resultant slurry pumped in the usual manner.

Dry Basegrout is normally mixed and placed by conventional methods.

**Basegrout**

For full technical information and performance data, please send for the new Basegrout and Basemix literature pack.

POZZOLANIC LYTAG LIMITED, Cleveland House, Cleveland Road, Hemel Hempstead, HP2 7EY, Tel: (0442) 89331

Enter 41 ON EXPRESS ENQUIRY CARD

## PROFESSIONAL INDEMNITY INSURANCE

The cost of P.I. Insurance has increased substantially over the past few years and the indications are that it will continue to do so in the future. All at a time when Architects in particular are under considerable pressure to contain their overheads. It is worth obtaining alternative quotations to compare with your present cover.

Contact Barrie Hurst  
Building Design Insurance Bureau  
147 Connaught Avenue, Frinton-on-Sea, Essex  
CO13 9RA

By telephone (025 56) 2112  
or insert number on the reader enquiry card

or complete the coupon below

Mr, Mrs, Ms, Miss .....  
Name of practice .....  
Address .....  
Tel: ..... Post Code .....

## This year if all new houses were built with Jeffloor Plus they would save more energy than some North Sea oilfields can produce.

Since the 'energy crisis' has spotlighted the need to conserve energy, steps have been taken to reduce this loss in housing with legislation that defines minimum requirements for walls and roofs but there are still no regulations for floor insulation. This means that at least one of our North Sea oilfields is working for nothing every year. JETFLOOR PLUS, Trent's unique fully insulated, precast, suspended house flooring system could plug this energy gap and save money in installation.

For a start, the combination of Trent's lightweight beams and EPS infill blocks (manufactured exclusively for Trent by Vencel Rest) make the system the fastest and most easy to install, and gives a U value that is far in excess of any existing system or any likely statutory requirements. Installation is unaffected by weather, needs far less labour and needs no heavy machinery.

It is well proven by most of the country's largest house builders, and has been acclaimed by the RICS as 'outstanding in its economy in use'. We're not talking about a drop in the ocean when we talk about savings — contact us now and get more for your money.

Trent Jeffloor Limited,  
Haverham,  
Nottingham NG14 7JX  
Tel: (0336) 830381

**JETFLOOR PLUS**



A member of the Halcrow Group

ON EXPRESS











# APPOINTMENTS

INDEPENDENT RESEARCH SHOWS BUILDING DESIGN TO BE THE BEST READ PUBLICATION AMONGST ARCHITECTS. IN ADDITION IT IS ALSO READ BY TECHNICIANS, ASSISTANTS, ENGINEERS, BUILDING SURVEYORS, INTERIOR DESIGNERS, CLERK OF WORKS, LANDSCAPE ARCHITECTS & PLANNERS. IF YOU NEED TO RECRUIT ANY OF THESE, YOU NEED BUILDING DESIGN.



To place your advertisement Telephone 01-855 7777 ext. 453 or 2004 telex (no 896238) or write to: Paul Nudda Building Design Classified, 30 Calderwood Street, London SE18 6QH. Published Friday. Latest copy date by post Wednesday prior to publication, or by telephone up until 4.30 pm.

Classified Advertisement Rates £18.50 per single column centimetre. Cancellation seven days prior to publication. Six columns per page. Printed by Web Offset. Box number £2 extra.



## MARRISON RECRUITMENT LIMITED

46-48 London Road, Twickenham, Middlesex TW1 3RG Telephone 01-891 0891

We are employment consultants who specialise in the placement of architectural, permanent and contract personnel. We have vacancies for Assistants/Technicians and Architects in London and Home Counties. For further details please phone Martin Morrison or Ellen Tierney.

### SPRATLEY CULLEARN & PHILLIPS MANCHESTER

#### ARCHITECT

to join this expanding practice. You must have 5 years experience and be looking for the opportunity to build a career based on design excellence and technical expertise.

Please telephone: Anne Edmondson Spratley Culearn & Phillips Mossy Chambers 6 Booth St, Manchester M2 4AW 061 236 3143

### WILLIAM GOWER & PARTNERS LTD

are seeking to expand their Leeds office and can offer an interesting range of work on commercial, residential and Health Authority projects.

We are looking for **ARCHITECTS and TECHNICIANS** who are happy to take maximum design and administrative responsibility for individual contracts.

Excellent salaries and working conditions are available at our Headingley office, and if you are interested in joining a stable and expanding practice please phone or write to Miss J. Errington at William Gower & Partners Ltd Moorfield Court Alma Road, Headingley Leeds LS6 2AH Tel: 0532-780011

## ESTATE DESIGNER

c.£13,000 + Car

The Westbury Group are one of the largest home builders in the U.K. We currently wish to recruit a suitably experienced Senior Estate Designer to be based at our office in Gloucester. The successful candidate will primarily be responsible for the design of site layouts for sites varying in size from ten to several hundred homes.

Candidates must have previous experience in the housebuilding industry together with a knowledge of negotiating with Local Authorities. In return for these requirements, we offer a negotiable salary of circa £13,000 per annum together with a range of benefits including contributory pension scheme and private patients plan. Assistance with relocation is available where appropriate.

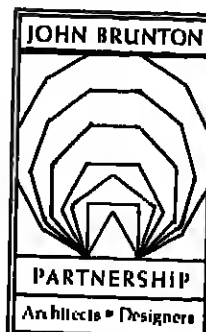
Interested candidates should write or telephone for an application form to: Mrs. N. Pass, Westbury Homes (Holdings) Limited, Westminster House, Merca Road, Gloucester GL1 2SQ. Tel: (0452) 27123. Closing date for applications: 6th May, 1988. Previous applicants need not apply.



### ARCHITECTS & TECHNICIANS

for CITY OF LONDON

Required with proven practical and design ability for a range of exciting housing and commercial projects. Rush your exciting c.v. to: 22 College Hill, London EC4. Previous applicants need not apply.



We are an equal opportunity employer.

### JT Design Build

## ARCHITECTS AND ARCHITECTURAL TECHNICIANS

We are looking for Architects and Senior Architectural Technicians with a minimum of 5 years qualified experience to join our multi-disciplinary professional teams. Our current workload includes Office, High Technology, Retail, Civic, Sports and Leisure buildings, all handled on a fully integrated design and build basis.

Please reply in writing with CV to Bob Hunt, JT Design Build, Bush House, 72 Prince Street, Bristol BS1 4HU, Phone 0272 290651

## WMP

### ARCHITECT

At least 3 years post part III experience with flair and initiative.

## ARCHITECTURAL TECHNICIANS ASSISTANT ARCHITECTS

Who have completed part II or who will be leaving college/university this summer. Are required to join this multi-discipline practice. We have an increasing and varied workload including retail, commercial, residential, education, government, health and civic buildings in UK, France, Jordan and West Africa.

Please write with CV to: David Radford Whiteloe Macfarlane Partnership 7 Hill Street, BRISTOL BS1 6RW

### ARCHITECTS ASSISTANTS/TECHNICIANS INTERIOR DESIGNERS SURVEYORS

Discuss your future prospects with ROBIN GIDDINGS. Send to:

MALLA ARCHITECTURAL APPOINTMENTS 594 EUSTON ROAD NW1. Tel: 01-387 1043.

### ARCHITECTURAL ASSISTANT/TECHNICIAN

required for varied and interesting work in the Architectural and Building Survey Department. Salary will reflect experience and ability.

Contact: Tanya Bess MSA George Trollope & Sons, 13 Hobart Place, London SW1 Telephone 01-235 8099

### NICOL THOMAS VINER BARNWELL BIRMINGHAM OFFICE

### EXPERIENCED ARCHITECTURAL TECHNICIAN

Please apply in writing to: Peter Board Nicol Thomas Viner Barnwell Gateway House, 53 High Street, Birmingham B4 7SU or telephone 021 443 4571 for further information

### ARCHITECTS • ASSISTANTS • TECHNICIANS

## UNITECH

Permanent • LYNDIA LLOYD • Contract 80 CROSWELL RD LONDON EC1 V7DB 01-250 1688

## SAUNDERS design.

The Saunders Design Company is a multi-disciplinary design practice which specialises in retail and commercial projects in the UK and overseas.

### ARCHITECTURAL ASSISTANTS/TECHNICIANS

with some years experience in this field who are used to running their own projects from inception to final completion and who are fully conversant with current regulations. Applicants will be expected to work on a wide variety of projects within the retail and commercial sectors.

Competitive salary packages will be offered to the right candidate. Applications including C.V.'s should be made in writing to: Alex Martin Saunders Design Company 30-35 Drury Lane, London WC2B 5RH

## TP BENNETT PARTNERSHIP

Is seeking talented DESIGNERS AND ARCHITECTS with at least two years experience

Please send C.V. to: Gregory Gale T P Bennett Partnership, 262 High Holborn, London, WC1V 7DU.

# PRIVATE SECTOR APPOINTMENTS

## SITES WANTED

retail or retail warehouse sites, with or without planning consent. Architects and Agents fully retained. Also R.I.C.S. scale introductory fee to Architects and private individuals. Premier Commercial Developments, P.O. Box 6, Uphook, Herts GU30 7UU. Tel: (0428) 722312.

## CLERK OF WORKS CHELTENHAM

Clerk of Works required for new build Computer Centre in Cheltenham, starting May 1988 and completing December 1987. Applicants must be conversant with piled foundations, steel structures, and with a sound knowledge of sophisticated air conditioning and M & E services. Apply giving full CV and references to Stone Toms Stephenson 34 Red Lion Square London WC1R 4EG

WILLIAM NIMMO & PARTNERS we urgently require **ARCHITECTS & TECHNICIANS** with approximately 2-6 years experience to work on a variety of office developments in the City of London. Salary by negotiation. Ring in the first instance: John Myers or Jim Abbott 01-225 2315

## DAVID LYONS AND ASSOCIATES

require **SENIOR ARCHITECTS** for their Leeds and Wakefield offices. We are looking for Architects who currently hold positions of responsibility and leadership and who have aspirations of associating with this commercial and rapidly expanding practice.

Apply to: 4/8 St. John's North, WAKEFIELD WF1 3QA.

## We've had a clear-out...

...because frankly we've been getting more jobs than we can sensibly handle. Trouble is (we should have said) even after thinning it down and filling quite a few of the vacancies with over 130 clients waiting to fill about 900 posts. There's worse - that's not counting several dozen new (and of course urgent) temporary posts weekly. And (worse yet) we've almost open ended client list who say 'well, you've filled the post - but we'd still be very interested if you ever saw...'

So, even after a clear-out, we're clearly out - in front, throughout the field of architecture from Technician to Associate - no-one can tell you more about more firms and more jobs. Register with us now RIBA Appointments Bureau 64 Portland Place London W1N 4AD Tel: 01-462 4485 Official recruitment consultancy of the Royal Institute of British Architects.

## RMJM are looking for both ARCHITECTS & TECHNICIANS

in our London office who are enthusiastic and have both design and management skills to join multi-disciplinary groups on a stimulating variety of work.

If you have 3 years or more experience since qualification and would like a fresh challenge, please telephone or write with your C.V. to Alan Foster at:—

RMJM London Ltd 42/46 Weymouth Street London W1A 2BC Telephone 01-485 4222

## Montrose Architecture The Professionals choose us for choice

**CHARLES** 1970-1975 1975-1980 1980-1985 1985-1990 1990-1995 1995-2000 2000-2005 2005-2010 2010-2015 2015-2020 2020-2025 2025-2030 2030-2035 2035-2040 2040-2045 2045-2050 2050-2055 2055-2060 2060-2065 2065-2070 2070-2075 2075-2080 2080-2085 2085-2090 2090-2095 2095-2100 2100-2105 2105-2110 2110-2115 2115-2120 2120-2125 2125-2130 2130-2135 2135-2140 2140-2145 2145-2150 2150-2155 2155-2160 2160-2165 2165-2170 2170-2175 2175-2180 2180-2185 2185-2190 2190-2195 2195-2200 2200-2205 2205-2210 2210-2215 2215-2220 2220-2225 2225-2230 2230-2235 2235-2240 2240-2245 2245-2250 2250-2255 2255-2260 2260-2265 2265-2270 2270-2275 2275-2280 2280-2285 2285-2290 2290-2295 2295-2300 2300-2305 2305-2310 2310-2315 2315-2320 2320-2325 2325-2330 2330-2335 2335-2340 2340-2345 2345-2350 2350-2355 2355-2360 2360-2365 2365-2370 2370-2375 2375-2380 2380-2385 2385-2390 2390-2395 2395-2400 2400-2405 2405-2410 2410-2415 2415-2420 2420-2425 2425-2430 2430-2435 2435-2440 2440-2445 2445-2450 2450-2455 2455-2460 2460-2465 2465-2470 2470-2475 2475-2480 2480-2485 2485-2490 2490-2495 2495-2500 2500-2505 2505-2510 2510-2515 2515-2520 2520-2525 2525-2530 2530-2535 2535-2540 2540-2545 2545-2550 2550-2555 2555-2560 2560-2565 2565-2570 2570-2575 2575-2580 2580-2585 2585-2590 2590-2595 2595-2600 2600-2605 2605-2610 2610-2615 2615-2620 2620-2625 2625-2630 2630-2635 2635-2640 2640-2645 2645-2650 2650-2655 2655-2660 2660-2665 2665-2670 2670-2675 2675-2680 2680-2685 2685-2690 2690-2695 2695-2700 2700-2705 2705-2710 2710-2715 2715-2720 2720-2725 2725-2730 2730-2735 2735-2740 2740-2745 2745-2750 2750-2755 2755-2760 2760-2765 2765-2770 2770-2775 2775-2780 2780-2785 2785-2790 2790-2795 2795-2800 2800-2805 2805-2810 2810-2815 2815-2820 2820-2825 2825-2830 2830-2835 2835-2840 2840-2845 2845-2850 2850-2855 2855-2860 2860-2865 2865-2870 2870-2875 2875-2880 2880-2885 2885-2890 2890-2895 2895-2900 2900-2905 2905-2910 2910-2915 2915-2920 2920-2925 2925-2930 2930-2935 2935-2940 2940-2945 2945-2950 2950-2955 2955-2960 2960-2965 2965-2970 2970-2975 2975-2980 2980-2985 2985-2990 2990-2995 2995-3000 3000-3005 3005-3010 3010-3015 3015-3020 3020-3025 3025-3030 3030-3035 3035-3040 3040-3045 3045-3050 3050-3055 3055-3060 3060-3065 3065-3070 3070-3075 3075-3080 3080-3085 3085-3090 3090-3095 3095-3100 3100-3105 3105-3110 3110-3115 3115-3120 3120-3125 3125-3130 3130-3135 3135-3140 3140-3145 3145-3150 3150-3155 3155-3160 3160-3165 3165-3170 3170-3175 3175-3180 3180-3185 3185-3190 3190-3195 3195-3200 3200-3205 3205-3210 3210-3215 3215-3220 3220-3225 3225-3230 3230-3235 3235-3240 3240-3245 3245-3250 3250-3255 3255-3260 3260-3265 3265-3270 3270-3275 3275-3280 3280-3285 3285-3290 3290-3295 3295-3300 3300-3305 3305-3310 3310-3315 3315-3320 3320-3325 3325-3330 3330-3335 3335-3340 3340-3345 3345-3350 3350-3355 3355-3360 3360-3365 3365-3370 3370-3375 3375-3380 3380-3385 3385-3390 3390-3395 3395-3400 3400-3405 3405-3410 3410-3415 3415-3420 3420-3425 3425-3430 3430-3435 3435-3440 3440-3445 3445-3450 3450-3455 3455-3460 3460-3465 3465-3470 3470-3475 3475-3480 3480-3485 3485-3490 3490-3495 3495-3500 3500-3505 3505-3510 3510-3515 3515-3520 3520-3525 3525-3530 3530-3535 3535-3540 3540-3545 3545-3550 3550-3555 3555-3560 3560-3565 3565-3570 3570-3575 3575-3580 3580-3585 3585-3590 3590-3595 3595-3600 3600-3605 3605-3610 3610-3615 3615-3620 3620-3625 3625-3630 3630-3635 3635-3640 3640-3645 3645-3650 3650-3655 3655-3660 3660-3665 3665-3670 3670-3675 3675-3680 3680-3685 3685-3690 3690-3695 3695-3700 3700-3705 3705-3710 3710-3715 3715-3720 3720-3725 3725-3730 3730-3735 3735-3740 3740-3745 3745-3750 3750-3755 3755-3760 3760-3765 3765-3770 3770-3775 3775-3780 3780-3785 3785-3790 3790-3795 3795-3800 3800-3805 3805-3810 3810-3815 3815-3820 3820-3825 3825-3830 3830-3835 3835-3840 3840-3845 3845-3850 3850-3855 3855-3860 3860-3865 3865-3870 3870-3875 3875-3880 3880-3885 3885-3890 3890-3895 3895-3900 3900-3905 3905-3910 3910-3915 3915-3920 3920-3925 3925-3930 3930-3935 3935-3940 3940-3945 3945-3950 3950-3955 3955-3960 3960-3965 3965-3970 3970-3975 3975-3980 3980-3985 3985-3990 3990-3995 3995-4000 4000-4005 4005-4010 4010-4015 4015-4020 4020-4025 4025-4030 4030-4035 4035-4040 4040-4045 4045-4050 4050-4055 4055-4060 4060-4065 4065-4070 4070-4075 4075-4080 4080-4085 4085-4090 4090-4095 4095-4100 4100-4105 4105-4110 4110-4115 4115-4120 4120-4125 4125-4130 4130-4135 4135-4140 4140-4145 4145-4150 4150-4155 4155-4160 4160-4165 4165-4170 4170-4175 4175-4180 4180-4185 4185-4190 4190-4195 4195-4200 4200-4205 4205-4210 4210-4215 4215-4220 4220-4225 4225-4230 4230-4235 4235-4240 4240-4245 4245-4250 4250-4255 4255-4260 4260-4265 4265-4270 4270-4275 4275-4280 4280-4285 4285-4290 4290-4295 4295-4300 4300-4305 4305-4310 4310-4315 4315-4320 4320-4325 4325-4330 4330-4335 4335-4340 4340-4345 4345-4350 4350-4355 4355-4360 4360-4365 4365-4370 4370-4375 4375-4380 4380-4385 4385-4390 4390-4395 4395-4400 4400-4405 4405-4410 4410-4415 4415-4420 4420-4425 4425-4430 4430-4435 4435-4440 4440-4445 4445-4450 4450-4455 4455-4460 4460-4465 4465-4470 4470-4475 4475-4480 4480-4485 4485-4490 4490-4495 4495-4500 4500-4505 4505-4510 4510-4515 4515-4520 4520-4525 4525-4530 4530-4535 4535-4540 4540-4545 4545-4550 4550-4555 4555-4560 4560-4565 4565-4570 4570-4575 4575-4580 4580-4585 4585-4590 4590-4595 4595-4600 4600-4605 4605-4610 4610-4615 4615-4620 4620-4625 4625-4630 4630-4635 4635-4640 4640-4645 4645-4650 4650-4655 4655-4660 4660-4665 4665-4670 4670-4675 4675-4680 4680-4685 4685-4690 4690-4695 4695-4700 4700-4705 4705-4710 4710-4715 4715-4720 4720-4725 4725-4730 4730-4735 4735-4740 4740-4745 4745-4750 4750-4755 4755-4760 4760-4765 4765-4770 4770-4775 4775-4780 4780-4785 4785-4790 4790-4795 4795-4800 4800-4805 4805-4810 4810-4815 4815-4820 4820-4825 4825-4830 4830-4835 4835-4840 4840-4845 4845-4850 4850-4855 4855-4860 4860-4865 4865-4870 4870-4875 4875-4880 4880-4885 4885-4890 4890-4895 4895-4900 4900-4905 4905-4910 4910-4915 4915-4920 4920-4925 4925-4930 4930-4935 4935-4940 4940-4945 4945-4950 4950-4955 4955-4960 4960-4965 4965-4970 4970-4975 4975-4980 4980-4985 4985-4990 4990-4995 4995-5000 5000-5005 5005-5010 5010-5015 5015-5020 5020-5025 5025-5030 5030-5035 5035-5040 5040-5045 5045-5050 5050-5055 5055-5060 5060-5065 5065-5070 5070-5075 5075-5080 5080-5085 5085-5090 5090-5095 5095-5100 5100-5105 5105-5110 5110-5115 5115-5120 5120-5125 5125-5130 5130-5135 5135-5140 5140-5145 5145-5150 5150-5155 5155-5160 5160-5165 5165-5170 5170-5175 5175-5180 5180-5185 5185-5190 5190-5195 5195-5200 5200-5205 5205-5210 5210-5215 5215-5220 5220-5225 5225-5230 5230-5235 5235-5240 5240-5245 5245-5250 5250-5255 5255-5260 5260-5265 5265-5270 5270-5275 5275-5280 5280-5285 5285-5290 5290-5295 5295-5300 5300-5305 5305-5310 5310-5315 5315-5320 5320-5325 5325-5330 5330-5335 5335-5340 5340-5345 5345-5350 5350-5355 5355-5360 5360-5365 5365-5370 5370-5375 5375-5380 5380-5385 5385-5390 5390-5395 5395-5400 5400-5405 5405-5410 5410-5415 5415-5420 5420-5425 5425-5430 5430-5435 5435-5440 5440-5445 5445-5450 5450-5455 5455-5460 5460-5465 5465-5470 5470-5475 5475-5480 5480-5485 5485-5490 5490-5495 5495-5500 5500-5505 5505-5510 5510-5515 5515-5520 5520-5525 5525-5530 5530-5535 5535-5540 5540-5545 5545-5550 5550-5555 5555-5560 5560-5565 5565-5570 5570-5575 5575-5580 5580-5585 5585-5590 5590-5595 5595-5600



# PRIVATE SECTOR APPOINTMENTS

## NEWBURY

### TECHNICAL ASSISTANT

Salary range £4,000-£5,000.  
Please write with CV to:-  
**PAUL PALMER & SMITH,**  
St. Nicolas House, West Mills, Newbury, Berks RG14 3HQ.

## ASSISTANT/TECHNICIAN

required for permanent position in our young and expanding multi-disciplinary practice involved in re-development and refurbishment projects for private, public and local authority clients. Initially on detailing for a Docklands industrial unit. West End studio offices close to Oxford Circus.  
**CHARLES HARRIS PARTNERSHIP**  
01-493 1241

## HUTCHISON LOCKE AND MONK

### QUALIFIED ARCHITECTS

with design talent to participate in civil and commercial projects at initial feasibility and presentation stages. It is an opportunity to join a new design group, take on responsibility and to play a leading role in the formative stages of significant schemes.

Applicants to contact  
**Tony Monk**  
Rayleigh House  
2 Richmond Hill, Richmond, Surrey TW9 1GQX  
Tel: 01-948 3136

## ARCHITECT

Young growing practice looking for a registered Architect with 4-5 years experience capable of working on own initiative.  
**NEMR ASSOCIATES**  
ARCHITECTURE PLANNING DESIGN  
88 PEMBROKE ROAD KENSINGTON LONDON W8 8NX TELEPHONE 01 803 1818

## WILLIAM GOWER & PARTNERS LTD

In December 1985 we opened our Knightsbridge office and we are now looking for Architectural and Technical staff to assist and take part in the expansion of this office.  
We can offer excellent salaries and working conditions, also a range of commercial and residential work in the City, West End and South-East England.

We are looking for  
**ARCHITECTS and TECHNICIANS**  
who are happy to take maximum design and administrative responsibility for individual contracts.  
Please phone or write to Mrs J. M. Sandland at  
**William Gower & Partners Ltd**  
Bower House (East), 8th Floor  
68 Knightsbridge, London SW1X 7LT  
Tel: 01-225 1506

# ARCHITECTS

## For design involvement on an international scale

The PSA routinely undertakes a £200m construction and maintenance programme worldwide and is responsible for the design, construction and adaptation of Government buildings and installations.

The sheer variety and scope of these operations provides opportunities for project involvement from design and planning through to construction on projects ranging from museums to research laboratories, embassies to prisons and housing for the Armed Services.

Great demands will be placed on your architectural expertise and design ability on projects which will often attract high public and professional interest.

Vacancies exist throughout England for Registered Architects who are keen to be involved in this scale of operation. RELOCATION ASSISTANCE MAY BE AVAILABLE.

For further details and an application

**PSA**  
**PROPERTY SERVICES AGENCY**

firm write to Civil Service Commission, Alencon Link, Basingstoke, Hants RG23 1J3, or telephone Basingstoke (0256) 488661 (answering service operates outside office hours). Please quote ref: T/2/80.  
The Civil Service is an equal opportunity employer

## ONLY ONE

Recruitment Consultants invite you to discuss the wide choice of career opportunities throughout South London, Kent & Surrey. We look forward to seeing you after work in

**KINGSTON**  
56/58 Clarence Street,  
Kingston, Surrey  
on Thursday, 1st May, 1988  
between 5pm and 8pm

If you cannot make it, then simply telephone 01-541 4474 to arrange an appointment at your convenience.  
**Montrose Architecture**  
The Professionals choose us for choice

## ARCHITECT & ARCHITECTURAL ASSISTANT/TECHNICIAN

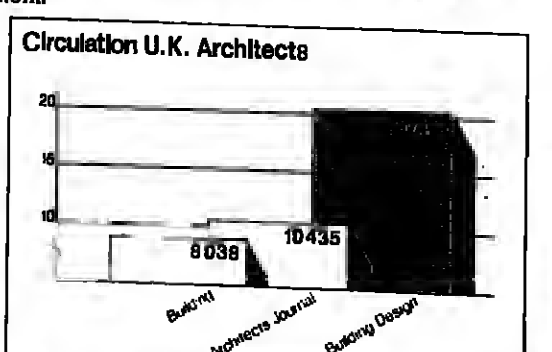
required by busy East London practice engaged on varied program of work including hospitals, surgeries, housing, industrial and commercial projects.  
Applicants must have several years experience.  
Write or contact for an interview.  
**Slater & Hickling RIBA**  
270 High Street North, Manor Park E19 6SB  
Tel: 01-472 6101

## BALDOCK HERFORDSHIRE

CLARK HATT GUNN, Architects & Surveyors, require  
**ARCHITECTS and EXPERIENCED ARCHITECTURAL TECHNICIANS**  
for varied and interesting commercial and industrial projects.  
Write with CV to:  
Rob Hatt  
The Milling, 44 Westgate Street, Baldock, Hertfordshire

## RECRUIT YOUR STAFF THROUGH BUILDING DESIGN

Comparing Journals ready by architects resident in the UK. Building Design has nearly double the circulation of its nearest competitor, offering you the maximum number of potential applicants reading your recruitment advertisement.



FOR ADVICE OR TO PLACE A RECRUITMENT ADVERTISEMENT  
TELEPHONE PAUL NUDD OR DAVID PENNY ON 01-858 7277

## amsa

**SECRETARIAL AND ADMINISTRATIVE STAFF**  
For Permanent and Temporary Appointments  
Architectural Management and Secretarial Agency  
Specialist Recruitment Consultants 01 734 0532

## YORKSHIRE COCKBURN WALL PARTNERSHIP

urgently require an  
**ARCHITECTURAL TECHNICIAN**  
to work on a variety of projects in a lively and expanding practice.  
Apply in writing with CV to:  
Cockburn Wall Partnership  
Wetherby House  
1 Wetherby, WETHERBY LS23 7UX

## Building Design Associates

London and Brighton require  
**SENIOR AND INTERMEDIATE STANDARD ARCHITECTURAL ASSISTANCE**  
in their Brighton office.  
Please write with details of experience to: 9 Fenchurch Street, Brighton BN1 4AT

## Montrose Architecture

**ARCHITECTURAL TECHNICIAN**  
We are looking for a talented individual to join our team of professionals working on a variety of projects in the South East. The successful candidate will be responsible for the design and construction of buildings and will be required to work on a variety of projects. Please send your CV to:  
01-550 8414  
35-37 Colney Road, Hemel Hempstead

Recruitment Consultants

To place your advertisement Telephone 01-855 7777 ext 453 or 0204 101110 8484381 or write to: Paul Nudd Building Design Consultant, 30 Colindale Avenue, London NW9 1EQ  
CLASSIFIED ADVERTISEMENT RATES £18.50 per single column centimetre. Box number 12. 12 columns per page.  
Acceptance: Published on Friday latest day after first post Wednesday before publication date or by telephone up to 4.30pm  
Cancellations: Seven days prior to publication

## Wallbridge Appointments

**URGENTLY REQUIRE**  
for numerous temporary and permanent vacancies in London and the UK.  
**ARCHITECTS TECHNICIANS ASSISTANTS AND INTERIOR DESIGNERS**  
Please contact in confidence David Pattinson or Norman McKee, 68 Red Lion Street, London WC1R 4NA Tel: (01) 405 8787

## B.U.A. require

**ARCHITECTURAL ASSISTANTS**  
to work on industrial, commercial and hospital work.  
Phone  
**Barry Urquhart Associates**  
on Weybridge 36351 for an interview

The Best Design studios in Birmingham? Well we think so and did you know? we are looking for:  
**ARCHITECTS, ARCHITECTURAL TECHNICIANS AND INTERIOR DESIGNERS** with good design ability to work in our new Midlands design studios on a variety of Architectural design projects throughout the UK.  
Attractive salaries and company car subject to status.  
Write to Louise Woodhull, personnel assistant  
55 St Pauls Square Birmingham 3

## The Lawray Partnership

**POST H.N.C. TECHNICIANS**  
urgently required by expanding architectural practice. Excellent long term prospects and working conditions. Varied and interesting workload. Top salaries negotiable.  
Apply in writing with CV to:  
Roger Owen MSc, Dip Arch distinction, RIBA, FRB  
The Lawray Partnership  
1 The Rise Llanllyfenni  
Carmarthen SA31 2JA

## ACP

require young skilled and enthusiastic  
**ARCHITECTS and TECHNICIANS**  
Our increasing workload gives you the opportunity to develop your working environment of a Hertfordshire Country House only 11 miles from central London.  
Ideally you will have design ability and a good knowledge of construction to work on a variety of new and rehab projects.  
If you think you meet our requirements or have other qualities send detailed CV immediately to:  
**ARCHITECTS CO-PARTNERSHIP LIMITED**  
Northway House, Potters Bar, Herts EN4 6PS.  
Telephone: (0707) 51141.

## Architectural Technicians

We now have vacancies in our Architects Department for experienced Technicians to work on a programme of interesting private housing schemes.  
Applicants should have MSAAT or be of an equivalent standard with a proven track record and previous housing experience. A sound knowledge of construction and a competent drafting ability are essential qualities.  
The Successful candidates will be joining a small, enthusiastic team, and will be responsible for specific projects, making Building Regulation applications and overseeing jobs through to completion.  
The positions carry an attractive salaries, company car, pension and life insurance, together with many other benefits relating to a large company.  
If you are interested, please send full c.v., or apply for an application form to: Miss E. Prince, Wessex Built Homes Limited, 1280 London Road, Norbury SW11 6AE. Tel: 01-784 6000.

# PRIVATE SECTOR APPOINTMENTS

## "TECH IT TO THE LIMITS"

Technician (Industrial) SW1 2/3 mths ongoing  
Architects (Dockland dev) SW1 2 mths ongoing  
Architects (Dockland dev) SW2 2 mths ongoing  
Architects (Dockland dev) SW2 2 mths ongoing  
Technician (Banking) SW2 2 mths ongoing  
Your 1st daily choice of technical jobs  
MONTROSE CONTRACTING LTD  
01-493 1241

## ARCHITECTURAL DRAUGHTSMAN/TECHNICIAN

required for Chartered Building Surveyors practice in London E11. The applicant will join a team whose work includes Housing Refurbishment, some retail and commercial work, contract administration and project supervision will also be included. A part-time applicant would be considered. Good salary with car allowance by negotiation.  
Tel: 01-558 1291 — J. Davies or S. Porter  
Davies & Millett  
4 Gainsborough Road, London E11 1HT

**ARCHITECTURAL TECHNICIAN** Reading Drafting with commercial and retail £9,500  
**ARCHITECTURAL DRAUGHTSMAN** London Sitework for design company £10,000 + car  
**ARCHITECTURAL TECHNICIAN** Reading Drafting with commercial and retail £11,000  
**ARCHITECT** Reading Excellent career opportunity for young enthusiastic person to work on industrial and commercial assignments £13,000  
Tel: (0703) 616067  
**OREWORLD**  
Recruitment Services  
76 Leigh Rd, Esselagh  
Hampshire SO8 4DQ

## VAT ON ADVERTISEMENTS

Value Added Tax will be chargeable at the standard rate (18%) on all advertisements. This tax can be reclaimed by all VAT registered companies from H.M. Customs and Excise.

## MOXLEY, JENNER & PARTNERS

Architects — with at least 2 years post graduate experience.  
Senior Technicians — with 5/10 years experience  
ventured in our new St James' and our Chelsea Studios in small teams on an urgent programme of Thames-side buildings and other work. Good pay and conditions.  
Write to: Alison Moxley, 1 Hobbhouse Court, Suffolk St SW1Y 4HH

As part of the restructuring of the Property Services section, the following vacancies have occurred at our Barking side headquarters:

**ARCHITECT**  
Salary scale S01/2 £9875-£11,804 p.a. plus £693 per annum London Weighting  
Candidates must have a minimum of 2 years' experience since obtaining their Part II RIBA examinations. Duties cover the provision of a professional service throughout Barnardo's, including preparation of design briefs, surveys, feasibility studies, etc. and advice to Divisions and Regions.  
This vacancy may also offer further term, or long term opportunities in our expanding practices.  
Apply in confidence (ref PSA/X) with detailed C.V. to:  
Partner in Charge  
**Architects Design Partnership**  
Hendford Manor  
33 Hendford, Yeovil  
Somerset BA20 1UN

## ARCHITECTURAL TECHNICIAN

Salary scale 3/8 £6234-£9591 p.a. plus £693 per annum London Weighting  
This work is challenging and includes the building of alterations to schools, residential homes, hostels, day care units, family centres and intermediate treatment projects.  
Barnardo's is a Christian child care organisation and offers conditions of service broadly in line with local authorities. Applications for posts are welcomed from persons irrespective of disability, marital status, sex or race.  
Application forms and job descriptions from Babs Oakley, Personnel Officer, Head Office Dr Barnardo's, Tannery Lane, Barking, Essex. Essex telephone 01-550 8822 ext 233.

**Barnardo's**

## MELDRUM, LEE & GILLATT

Architects & Quantity Surveyors require  
**ARCHITECTURAL TECHNICIAN**  
Please write with full CV to  
49 High Street  
Boston  
Lincolnshire PE31 8SP

## PIPCO

**ARCHITECTURAL ASSISTANTS and TECHNICIANS**  
urgently required  
LONDON/ HOME COUNTIES  
01-572 7363  
26 High Street  
Hounslow  
Middlesex TW3 1NW

## D.L.G.P.

Are seeking lively and experienced  
**ARCHITECT**  
for an exciting range of projects from inception to completion.  
Send your CV with details of availability and salary required to:  
**Christine Harwood**  
Diamond Lock Grabowski and Partners  
12 Sutton Row, London W1V 6AB

## ARCHITECTS DESIGN PARTNERSHIP

**SUPERVISING OFFICER**  
ADP invite applications for a Supervising Officer in connection with an £18 million PSA contract now under way at Portland. This contract is administered from ADP offices in Yeovil with a full support team.  
Suitable candidates will have knowledge of major contracts, notably GC/work 1, with extensive and construction experience either in the profession or the contracting industry. A term of 2 years is offered with commensurate high salary to the selected candidate.  
Full expenses paid by arrangement.  
This vacancy may also offer further term, or long term opportunities in our expanding practices.  
Apply in confidence (ref PSA/X) with detailed C.V. to:  
Partner in Charge  
**Architects Design Partnership**  
Hendford Manor  
33 Hendford, Yeovil  
Somerset BA20 1UN

## ARCHITECTS

We are seeking to recruit architects who are accustomed to working to tight programmes and are able to make things happen. The company takes great pride in achieving high standards for a variety of projects in the industrial and commercial fields. Salary and working conditions will be exceptional to the right applicant and only those with a proven track record need apply.  
Write with CV to George Wright at the address below

## COVELL MATTHEWS WHEATLEY ARCHITECTS

33 Parkside, Cambridge CB1 1JE

## EXPERIENCED ARCHITECTURAL TECHNICIANS

required for contract and permanent positions in offices in NW and W London to work on housing, office and hospital projects.  
Further details from:  
**Professional and Technical Services**  
25 Finsbury Road  
London EC2A 3BJ  
Tel: 01-485 1484

## LANDSCAPE ARCHITECT

required for busy expanding practice, opportunity for talented designer with good graphics and drawing ability able to assume responsibility for the design, detailing and supervision of a wide range of projects.  
Experience in private practice and a current driving licence is essential.  
Apply with CV to:  
Michael Wright Associates  
Milton House, Old Coach Road, Cress, Wiltshire, Wiltshire BA20 9BS  
Authority (0934) 724330

Recruitment Consultants

## Senior Project Architect

Surrey  
**RESIDENTIAL PERIOD REBUILDING PROJECT**  
c £18,000

Our client is a multi-disciplined architectural practice specialising in commercial and residential development and interior design. As a result of 10 years steady expansion they need to appoint a Senior Project Architect to handle a £10 million, prestigious individual residential project near London. The project is expected to take 2 years and is in the design stage, with construction expected to start in September.  
We are seeking candidates with a wide range of experience in period re-building and refurbishment. They should be currently working for an Architectural Practice or Specialist Contractor. This is an excellent opportunity for an Architect, aged between 35 to 45, with flair and ability to evidence his career within the practice.

For further information and to discuss your application in confidence please contact  
Robin Giddings or write to:  
**Malle Architectural Appointments**  
334 Euston Road, London NW1 3BG  
Tel: 01-388 2284, Fax: 387 8312

## BRISTOL TECHNICIANS

Salary Range £6,000-£9,000  
Additional permanent staff required for established practice.  
Write with full CV and salary required to:  
**Paul Campbell**  
R & J Consultants  
26 South View, Staple Hill, Bristol BS16 5PJ  
Tel: 01272 363289

## CHAPMAN TAYLOR PARTNERS

Chartered Architects and Planning Consultants  
require an  
**ARCHITECT**

with good all round abilities seeking a challenging position, to join a small team working on a new office building in London.  
Please contact Russell Taylor by writing to:  
96 Kensington High Street, London W8 7RE  
Telephone 01 938 3333

## ARCHITECTS

We are seeking to recruit architects who are accustomed to working to tight programmes and are able to make things happen. The company takes great pride in achieving high standards for a variety of projects in the industrial and commercial fields. Salary and working conditions will be exceptional to the right applicant and only those with a proven track record need apply.  
Write with CV to George Wright at the address below

## COVELL MATTHEWS WHEATLEY ARCHITECTS

33 Parkside, Cambridge CB1 1JE

## EXPERIENCED ARCHITECTURAL TECHNICIANS

required for contract and permanent positions in offices in NW and W London to work on housing, office and hospital projects.  
Further details from:  
**Professional and Technical Services**  
25 Finsbury Road  
London EC2A 3BJ  
Tel: 01-485 1484

## LANDSCAPE ARCHITECT

required for busy expanding practice, opportunity for talented designer with good graphics and drawing ability able to assume responsibility for the design, detailing and supervision of a wide range of projects.  
Experience in private practice and a current driving licence is essential.  
Apply with CV to:  
Michael Wright Associates  
Milton House, Old Coach Road, Cress, Wiltshire, Wiltshire BA20 9BS  
Authority (0934) 724330

Recruitment Consultants

**YOU**  
could move forward  
with  
Holder and Mathias  
Partnership  
Apply in confidence to:  
Mrs. C. Jones  
Personnel Department  
**Holder and Mathias Partnership**  
The Kings Road  
London SW3 4ET

ARE YOU AN EXCEPTIONAL ARCHITECT?  
DO YOU WISH TO WORK FOR AN EXPANDING FORWARD LOOKING PRACTICE WHICH BOTH ENCOURAGES AND REWARDS INITIATIVE, SKILL AND HARD WORK?  
WOULD YOU LIKE TO JOIN ONE OF OUR EXISTING TEAMS WORKING ON A FASCINATING RANGE OF LONG TERM COMMISSIONS?  
IF YOUR ANSWER IS YES AND YOU HAVE AT LEAST FIVE YEARS EXPERIENCE, THEN WE NEED YOU AND YOU NEED US.  
YOU WILL BE BASED AT OUR CAMBRIE OFFICES AND WE OFFER AN EXCELLENT REMUNERATION PACKAGE WITH PLANNED PROGRESSION FOR CAREER DEVELOPMENT.



# PRIVATE SECTOR APPOINTMENTS

## TOM MELLOR & PARTNERS

require  
**ARCHITECTURAL  
TECHNICIANS**  
at their Lytham Office to work on a variety of  
building types.

Apply in writing to:  
23 Park Street  
Lytham FY8 3LY

## Renton Howard Wood Levin Partnership

**RHWL**

77 Endell Street  
London WC2H 8AJ

We are looking for an experienced

## SITE ARCHITECT

for a large new-build office project in the West of  
London.  
Please apply with C.V. marking your application  
CL to Jenette Payne at the above address.

## University of Strathclyde DEPARTMENT OF ARCHITECTURE AND BUILDING SCIENCE

### SERC Research Studentship for a DESIGNER with the BUILDING PERFORMANCE RESEARCH UNIT

Applications are invited from designers interested in the development of  
advanced techniques for use in the design and management of quality and  
value in building.

The research studentship is tenable for three years and might extend  
designers with secondment from practice.

Applicants should have a good honours degree in Architecture or related  
discipline and will be required to register for a higher degree with the  
University.

Applications with curriculum vitae, short statement of research interest  
and the names of two referees should be lodged by 31 May 1988 with Mr  
Keith Alexander, Director, SERC, Department of Architecture and Building  
Science, University of Strathclyde, 131 Rottenrow, Glasgow G4 0NE.

## Architects & Technicians

We are looking for experienced Architects  
and Technicians with imagination, flair and  
enthusiasm, to join one of our rapidly  
expanding divisions.

We're growing phenomenally in the past  
decade by being good, efficient and  
effective. We have a reputation for good  
design, tempered with commercial realism.  
Our workload is enormously varied and  
includes housing schemes, office  
developments, retail schemes and a wide  
range of factory and high-tech campus  
schemes.

Although we are a large company we  
operate as a number of architectural  
divisions which allow us to combine the  
friendly atmosphere of a small practice with  
the interesting and demanding workload of  
a larger one.

If you are looking for an attractive salary  
with the opportunity to develop your  
existing skills and to learn new ones  
contact:

Richard Gardiner,  
Divisional Director.

## LYSTER GRILLET & HARDING

require  
**PROJECT ARCHITECT & PART II ASSISTANT**  
in their London office for an ambitious community architecture  
scheme.  
Apply with C.V. to:  
17-21 Emerald Street, London WC1N 3QL  
Tel: 01-831 9331

## stirling

RECRUITMENT CONSULTANTS

### FED UP WITH BEING THE ONLY RAG? WE'LL MAKE YOU THE MECHANIC

N.W. LONDON — Shopping and Retail Technicians  
TECHNICIANS — Housing background — St. Albans, Richmond and Hertford.  
TECHNICIANS — Commercial and Industrial experience for permanent  
positions and long contracts — West End & City.  
TECHNICIANS also needed for Kent, Herts, Surrey, Surrey/Hants. Border,  
Bucks/Hampshire.  
PROJECT ARCHITECTS & TECHNICIANS for Interior Design & Architectural  
practices.  
JUNIOR DESIGNERS — Domestic Interiors — C. London, Inn. stann.  
SALARY RANGES from £7-15K  
Commitment only, no fee.  
STIRLING HOUSE, 44 RICHMOND ROAD, KINOSTON, SURREY KT2 3EE  
Tel: 01-848 3720

## ARCHITECT

required with post graduate experience to work on an interesting  
variety of projects.

Please phone or write to:  
John Spence and Partners,  
Essex Lodge,  
Barnes SW13  
Tel: 01-878 1201

## Subscription details

Building Design is published weekly and sent free of  
charge to registered architects working in the UK and  
selected members of allied trades. Subscription rates:  
one year £30, overseas \$80, single copies 80p. Orders  
to: Subscription Dept, Morgan-Grempian (Construc-  
tion Press) Ltd, Royal Sovereign House, 40 Beresford  
Street, London SE18 6BQ (01-854 2200).

## FAIRHURSTS

### ARCHITECTS and TECHNICIANS

We have a very varied and expanding workload and  
are looking for Architects with design flair and good  
presentation techniques, to join teams working on  
exciting schemes in locations ranging from the South  
Coast to the North of Scotland.

We are also looking for Architects and Technicians  
with a minimum of five years proven contract  
experience who can work under pressure on fast  
track projects.

The vacancies exist in Central Manchester and in  
South Kensington.

Applications in writing with full C.V. in envelope  
marked "Confidential" to:  
Partnership Secretary  
Fairhursts Architects  
53 Brown Street  
Manchester  
M2 2JR

## BDP

BDP LONDON

has openings at all levels for talented and enthusiastic  
technical design Architects who wish to participate in  
exciting projects.

This is a time of great expansion in our office and career  
prospects are good.

Responses must include current C.V. and examples of  
work.

Please submit promptly to:  
Alison Meldrum  
Building Design Partnership  
PO Box 4WD  
16 Gresse Street  
London W1A 4WD

At the request of advertisers, readers are asked to refer to Building Design when replying to  
advertisements on this and other pages

## PART I & PART II ASSISTANTS

required by  
**ROBERT HARRISON  
ARCHITECTS**  
Freelance preferred, for small  
lively practice.  
Telephone 01-348 5919/3141

## Surrey

our clients based in Surrey have an opportunity for an Architect wishing to progress  
to Senior Management.  
If you are RIBA plus with BSC, aged  
between 30 & 40 with some experience of  
overseas employment, liaison, report  
writing, then could be the job for you.  
Contracts  
We have many contracts in all areas of  
London and the Home Counties for  
Architects, Technicians and good drafters.  
Tel: 01-728 9887  
or write to:  
Technical Engineering &  
Development,  
8 Heathway Road,  
London SW14 4TJ

## We wish to appoint another young

### QUALIFIED ARCHITECT

In our Andover Branch Office which is  
closely associated with our joint head  
office in Salisbury.

Our practice has a varied work load  
including commercial, industrial and  
domestic projects with a bias towards  
conservation of churches.

Please write enclosing curriculum vitae to:  
J. J. A. Cault  
Robert J. Porter and Partners  
Incorporating THE SALISBURY PARTNERSHIP  
Salisbury, Wiltshire, SP1 3SL

## LONDON & SOUTH EAST ARCHITECTURAL PRACTICES

WITH STAFF SHORTAGES  
Wide experienced Irish Practice  
(within 55 minutes London Air-  
port) can offer a Multi  
Disciplinary Service.

Contact:  
Michael R. Casey, 8 Arch,  
M.R.I.A., R.I.B.A., A.C.I. Arb.  
Chartered Architect  
Ard na Rí, Carrigis Lane  
Carrigis, Co. Cork  
Tel 0002 371841

## SENIOR TECHNICIAN ARCHITECTURAL ASSISTANT & TECHNICIAN

Urgently required for overseas projects working in London based  
firm.

Please write with C.V. and expected salary to, or telephone:  
G. I. Architects & Designers  
Thames Wharf Studios  
Raimond Road, London W16 9HA  
01-381 8690/8633

## A&Q PARTNERSHIP

REQUIRE

FREELANCE ARCHITECTURAL STAFF

348 ST. JOHN STREET - LONDON EC4V 4NN  
TELEPHONE: 01-833 2471/2 - TELEFAX: 89511022

## LECTURER II/SENIOR LECTURER IN ARCHITECTURE

(0.5 full time appointment)  
£9,114-£16,083 Incl. (pro rata)

Applications are invited from qualified Architects with professional  
teaching experience for a 0.5 post in the Design Unit of  
Architecture, Faculty of the Built Environment.

Successful candidates will be expected to teach design, contribute  
to the teaching of architectural technology and combine their  
appointment with a significant practice and/or research  
commitment.

Application forms and further details are available from the  
Personnel Department, South Bank Polytechnic, Borough Road,  
London SE1 0AA. Telephone 01-828 3812 (answering service  
9.00 am to 8.00 pm).

Please quote Ref: ARC/1  
Closing date for applications: 16.5.88.  
An Equal Opportunities Employer.

South Bank  
Polytechnic  
Teaching for tomorrow  
in the heart of London

At the request of advertisers, readers are asked to refer to Building Design when replying to  
advertisements on this and other pages

# PRIVATE SECTOR APPOINTMENTS

## LEES ASSOCIATES IN COVENT GARDEN

require  
**ARCHITECTS & INTERIOR  
DESIGNERS**  
We have a number of exciting and unusual projects and are looking  
for genuine commitment to high quality developments.  
Career advancement and a very competitive financial package will  
be offered to the right people.

Apply in writing to:-  
John Lees  
Senior Partner  
Lees Associates  
5 Dryden Street  
London WC2  
Tel: 01-840 3430

## JOHNS SLATER & HAWARD: IPSWICH

Busy multi-disciplinary practice requires enthusiastic and  
experienced

### ARCHITECTS & TECHNICIANS

to assist on a varied programme of work.  
Please apply in writing with C.V. to:-  
John Slater & Howard,  
Chartered Architects & Services Consultants,  
32 Foundation Street, Ipswich, IP4 1BH.

## ARCHITECTURAL TECHNICIAN

HNC Standard  
young but with good experience wanted for established N.W.  
Welsh architectural practice.

Apply:  
Bowen Dunn Davies Partnership  
80 Wynnstay Road, Colwyn Bay  
0493-33136

## ARCHITECTS

(Ref 601) Deputy Chief Architect, development company,  
RIBA plus 8 years experience - Hertfordshire. £18K plus  
usual company benefits.

(Ref 376) Project Architects, hi-tech, RIBA + 5 years  
minimum experience. £17K P.A. SW7.

(Ref 398) Project Architects - commercial, domestic,  
Industrial, RIBA + 3 years experience. £15K P.A. Surrey and  
Central London.

(Ref 600) Architects, RIBA + minimum 3 years experience,  
NW6, NW1, Surrey, Herts, Essex & C. London to £14K P.A.

(Ref 621) Technicians - preferably HNC, MSAAT + 10 years  
experience, commercial, industrial, domestic to £14K P.A.  
all areas.

(Ref 682) Interior Designers/Planners, 5 years minimum  
experience + qual, Central London, W. London, Midx to  
£16K P.A.

also many contract positions available in all areas with top  
hourly rates.

Send C.V.'s or telephone F. Gold or V. Ridley

**EMANCO**  
LIMITED  
Engineering Management Consultants  
8 Great Russell Street, London WC1B 3NH  
Telephone: 01-323 0821  
Telex: 8951182 and 262284  
Cables: Emanco London W1.

## FROGMORE

ESTATES PLC

**FE**

Two Architectural Technicians, M.S.A.A.T. or  
similar level of experience required immediately  
to fill permanent positions to work on industrial  
and commercial projects.

The office is situated in a country house in  
Hertfordshire and offers an excellent working  
environment and a substantial and varied  
workload.

Salary will be subject to negotiation.

Please apply by telephone to:  
Dennis Porter R.I.B.A.,  
Company Architect,  
Frogmore Estates (Investments) Ltd.,  
Frogmore Hall,  
Watton-at-Stone,  
Hertford SG14 3RW.  
Telephone: Watton (0920) 830033

## ADRENN

RECRUITMENT

**CONTRACT WORK**  
If you are available at short  
notice and interested in a  
temporary assignment with a  
good salary and high hourly  
rate you will be pleased to know  
that we have plenty of work for  
architects, technicians and  
interior designers in London and  
the Home Counties.  
ADRENN RECRUITMENT LTD.  
15 Old Court Place,  
Kensington,  
London W8 4PL  
Tel: 01-938-3433  
Interviews by appointment

## mfp

ARCHITECTS

If you are keen to become part of a  
small design conscious practice with  
a rapidly expanding workload, we  
offer responsibility and high salary.  
If you would like to work on exciting  
office, hotel, residential or retail  
projects and have at least 3 years  
experience since part II,  
Send your C.V. to:  
M. R. Partnership  
Architects - Interior Designers  
9 Wimpole Street  
London W1M 7AA

## Keith Snell & Partners

Chartered Building Surveyors

Building Surveyors and Technicians

### BUILDING SURVEYORS

recently qualified with sound technical knowledge and drawing  
skills.

### TECHNICIANS

should have proven practical experience.  
Required to work in small survey teams under the general  
supervision of a senior building surveyor or partner.

Our current workload includes most building surveying duties  
including maintenance refurbishment and conversion to  
buildings of all types. Some of our work is technically demanding  
and requires the ability to work under pressure whilst  
maintaining high standards.

Salaries negotiable. Working conditions are interesting.

Apply in the first instance to Keith Snell or Alan Shurey  
13/14 Chertsey Road, London EC1M 8AX  
Telephone 01-260 1782

## PROJECT ANALYST

SHOP DEVELOPMENT DIVISION

circa £11,000 + substantial bonus

The Burton Group is one of the most successful  
fashion retail groups in the UK.

Reporting to the Project Director, in our Central  
London Shop Development Division, you will be  
instrumental in identifying timescale, workload  
and cashflow problems, thus providing a valuable  
source of information to Senior Management and  
responsible for all shopfitting and refurbishment  
projects.

Much of the job involves statistical analysis aided  
by a micro computer. You will need therefore to be  
computer literate, demonstrate numerical skills and  
have a logical approach to problem solving. A back-  
ground in a shopfitting environment would be  
desirable but much more important are good  
interpersonal skills, resilience, flexibility, self-  
assertion and plenty of self-motivation.

If this challenging appointment interests you and  
you think you have the calibre to match, please  
send your C.V. along with details of your present  
salary to:

Kim Jones,  
The Burton Group Plc,  
11-13 Market Place, London W1.

## THE BURTON GROUP PLC

## IDEA International Limited

Required staff for UK  
and Middle East projects

Telephone 01-630 0481

### PROJECT ARCHITECTS ARCHITECTS ARCHITECTURAL TECHNICIANS SPECIFICATION WRITER

Write with CV or telephone  
Paul Kneil A.C.I.O.E.  
General Manager

# PUBLIC SECTOR

## ARCHITECTURAL ASSISTANT

SALARY: UP TO £10,830

Applications are invited for the above post in the  
Corporation's Department of Architecture.

The successful applicant will possess several  
years experience in a private or public authority  
office with proven ability both on the board and on  
the site. He/she will report to the appropriate Senior  
Architect or Group Leader with responsibility for the  
particular project in hand.

The Department of Architecture is currently  
involved in the design and construction of special  
needs and sheltered housing, rehabilitation work on  
up to 500 houses per year as part of a long-term  
maintenance programme and on increasing pro-  
gramme of industrial refurbishment, and new build.  
The successful applicant would be expected to make  
a substantial contribution towards this workload.

Salary placing will be in relation to qualifications  
and experience; generous annual leave and public  
holiday entitlement; choice of superannuation  
schemes and free group life insurance. Car loan  
scheme and allowances may be available and  
removal expenses may also be paid.

Application forms are available from the  
Personnel Department. Completed forms should be  
returned to Personnel within 14 days of the  
appearance of this advertisement. East Kilbride  
Development Corporation, Aikill House, East  
Kilbride, G74 1LU. Tel. East Kilbride 41111.

## East Kilbride Development Corporation

Join Britain's most successful new town.

## BUILDING DESIGN Directory of Consultants & Services

All professional consultants working to strict codes of practice find difficulty in  
adequately promoting their services as an Architect, Surveyor, Interior Designer, or  
Engineer you are no exception.  
So that you may make yourself known to potential clients and keep within your  
professional code of practice, Building Design publishes a special section once a  
month within the paper entitled "DIRECTORY OF CONSULTANTS AND SERVICES".  
Building Design is the most widely read professional publication among architects.  
It is the leader in the field for news coverage and appointments advertising. When  
you may not be aware of it that Building Design also circulates among Building  
Contractors, Developers, Interior Designers, Nationalised Industries, Property  
Departments, Local Authorities and Housing Associations etc.

This small readership offers to you on a professional a considerable number of  
potential clients to which you could promote the services of your firm more than  
in effect, Architects, Quantity Surveyors, Interior Designers, Consulting  
Engineers, Structural Engineers, Contractors and other organisations offering  
services are invited to take notice in the Directory of Consultants & Services  
which appears twice a year in the pages of Building Design.  
To bring your firm to the attention of all concerned with the building industry  
and to ensure that your firm is included in the Directory of Consultants & Services  
as shown in the table.

If you wish to take an entry you will find below an order form. Additional entries for  
branch and overseas offices can also be accepted.

Entries in the Directory of Consultants & Services are charged at £100 to cover  
initial insertions (1 year) while not involved in advance.

SPECIFICATION CODES		
Design	Services	Construction
01 Housing	01 Domestic & Extensions	01 Housing
02 Shopping & Laboratories	02 Commercial	02 Shopping
03 Industrial	03 Industrial	03 Industrial
04 Landscaping & Rehabilitation	04 Landscaping & Rehabilitation	04 Landscaping & Rehabilitation
05 Parks	05 Parks	05 Parks
06 Landscaping	06 Landscaping	06 Landscaping
07 Commercial/Industrial/Institutional	07 Commercial/Industrial/Institutional	07 Commercial/Industrial/Institutional
08 Building Services	08 Building Services	08 Building Services
09 Building Services	09 Building Services	09 Building Services
10 Building Services	10 Building Services	10 Building Services
11 Building Services	11 Building Services	11 Building Services
12 Building Services	12 Building Services	12 Building Services
13 Building Services	13 Building Services	13 Building Services
14 Building Services	14 Building Services	14 Building Services
15 Building Services	15 Building Services	15 Building Services
16 Building Services	16 Building Services	16 Building Services
17 Building Services	17 Building Services	17 Building Services
18 Building Services	18 Building Services	18 Building Services
19 Building Services	19 Building Services	19 Building Services
20 Building Services	20 Building Services	20 Building Services
21 Building Services	21 Building Services	21 Building Services
22 Building Services	22 Building Services	22 Building Services
23 Building Services	23 Building Services	23 Building Services
24 Building Services	24 Building Services	24 Building Services
25 Building Services	25 Building Services	25 Building Services
26 Building Services	26 Building Services	26 Building Services
27 Building Services	27 Building Services	27 Building Services
28 Building Services	28 Building Services	28 Building Services
29 Building Services	29 Building Services	29 Building Services
30 Building Services	30 Building Services	30 Building Services
31 Building Services	31 Building Services	31 Building Services
32 Building Services	32 Building Services	32 Building Services
33 Building Services	33 Building Services	33 Building Services
34 Building Services	34 Building Services	34 Building Services
35 Building Services	35 Building Services	35 Building Services
36 Building Services	36 Building Services	36 Building Services
37 Building Services	37 Building Services	37 Building Services
38 Building Services	38 Building Services	38 Building Services
39 Building Services	39 Building Services	39 Building Services
40 Building Services	40 Building Services	40 Building Services
41 Building Services	41 Building Services	41 Building Services
42 Building Services	42 Building Services	42 Building Services
43 Building Services	43 Building Services	43 Building Services
44 Building Services	44 Building Services	44 Building Services
45 Building Services	45 Building Services	45 Building Services
46 Building Services	46 Building Services	46 Building Services
47 Building Services	47 Building Services	47 Building Services
48 Building Services	48 Building Services	48 Building Services
49 Building Services	49 Building Services	49 Building Services
50 Building Services	50 Building Services	50 Building Services
51 Building Services	51 Building Services	51 Building Services
52 Building Services	52 Building Services	52 Building Services
53 Building Services	53 Building Services	53 Building Services
54 Building Services	54 Building Services	54 Building Services
55 Building Services	55 Building Services	55 Building Services
56 Building Services	56 Building Services	56 Building Services
57 Building Services	57 Building Services	57 Building Services
58 Building Services	58 Building Services	58 Building Services
59 Building Services	59 Building Services	59 Building Services
60 Building Services	60 Building Services	60 Building Services
61 Building Services	61 Building Services	61 Building Services
62 Building Services	62 Building Services	62 Building Services
63 Building Services	63 Building Services	63 Building Services
64 Building Services	64 Building Services	64 Building Services
65 Building Services	65 Building Services	65 Building Services
66 Building Services	66 Building Services	66 Building Services
67 Building Services	67 Building Services	67 Building Services
68 Building Services	68 Building Services	68 Building Services
69 Building Services	69 Building Services	69 Building Services
70 Building Services	70 Building Services	70 Building Services
71 Building Services	71 Building Services	71 Building Services
72 Building Services	72 Building Services	72 Building Services
73 Building Services	73 Building Services	73 Building Services
74 Building Services	74 Building Services	74 Building Services
75 Building Services	75 Building Services	75 Building Services
76 Building Services	76 Building Services	76 Building Services
77 Building Services	77 Building Services	77 Building Services
78 Building Services	78 Building Services	78 Building Services
79 Building Services	79 Building Services	79 Building Services
80 Building Services	80 Building Services	80 Building Services
81 Building Services	81 Building Services	81 Building Services
82 Building Services	82 Building Services	82 Building Services
83 Building Services	83 Building Services	83 Building Services
84 Building Services	84 Building Services	84 Building Services
85 Building Services	85 Building Services	85 Building Services
86 Building Services	86 Building Services	86 Building Services
87 Building Services	87 Building Services	87 Building Services
88 Building Services	88 Building Services	88 Building Services
89 Building Services	89 Building Services	89 Building Services
90 Building Services	90 Building Services	90 Building Services
91 Building Services	91 Building Services	91 Building Services
92 Building Services	92 Building Services	92 Building Services
93 Building Services	93 Building Services	93 Building Services
94 Building Services	94 Building Services	94 Building Services
95 Building Services	95 Building Services	95 Building Services
96 Building Services	96 Building Services	96 Building Services
97 Building Services	97 Building Services	97 Building Services
98 Building Services	98 Building Services	98 Building Services
99 Building Services	99 Building Services	99 Building Services
00 Building Services	00 Building Services	00 Building Services



# PUBLIC SECTOR APPOINTMENTS

## BASSETLAW DISTRICT COUNCIL VACANCY

**POST:** QUANTITY SURVEYING TECHNICIAN  
**LOCATION:** Queen's Buildings, Potter Street, Worksop, Notts.  
**SALARY GRADE:** Scale 2/3/4 (£5550-£7713 per annum)

The successful applicant will be required to assist generally in the Quantity Surveying Section with duties ranging from the feasibility stage through to final accounts.

Ideally, the applicant should have some relevant experience in a Quantity Surveying Office and be studying for a Building qualification; day release will be granted in approved cases. The applicant should also have a basic knowledge of Bills of Materials preparation, interim valuations, re-measuring works and estimating. The Section also operates a micro-computer for which training will be given.

A casual user car allowance and car loan scheme are applicable to this post. Applicants should possess a current driving licence.

APPLICATION FORMS can be obtained from the Personnel Officer, Central Depot, Hundred Acre Lane, Carlton Forest, Worksop, Notts., S81 0TS (Or telephone Worksop 475531, extension 136).

CLOSING DATE: 12 May 1988.

THIS IS A READVERTISEMENT and previous applicants need not apply.

## HERTS. COUNTY COUNCIL ARCHITECTS DEPARTMENT

The County Architect is now looking for experienced Architects and for a Technical Assistant to work in one of our two design groups. These groups of professional/technical staff work as part of a team in collaboration with other professions on a wide cross-section of County buildings involving both new design and alterations. The work includes the opportunity to become involved in computer-aided design.

### ARCHITECT:

Scale 8/P01(E) £9182 — £13088 p.a. inclusive of local weighting.  
The Architect will have several years of post-qualification experience with proven design capability, a thorough knowledge of modern building techniques and ability to manage individual projects from briefing through to completion.

### TECHNICAL ASSISTANT:

Scale 4/6 £7113-£8804 p.a. inclusive of local weighting.  
The Technician will have a sound technical knowledge of building construction to assist Architects in the preparation of contract information with speed and accuracy. The opportunity would exist for the Technician to handle some smaller projects.

Starting salaries are dependent upon ability, experience and qualifications and posts carry a casual car user allowance. Relocation allowance up to £3160 is available.

Further information and application forms from the Principal Administrative Officer on Hertford 658011, returnable by Monday 12 May 1988.



## TECHNICAL SERVICES DEPARTMENT

### Architectural Technical Assistant SO1 £10,668-£11,331

A vacancy exists for a talented and enthusiastic person to undertake a workload covering education, leisure, social services, housing and other projects ranging from small alterations to new works of £1m or more. For this post willingness and an ability to learn and demonstrate appropriate qualities will be rewarded with opportunities for the post holder to carry through his/her projects from inception to completion. Casual car user allowance payable.

Further details available from Mr D. Baker, Chief Architect on 01-681 6857.

Application forms and further details obtainable from Borough Architect and Planning Officer, Technical Offices, 24 Denmark Road, Carshalton, Surrey. Tel: 01-681 6878.

## LONDON BOROUGH OF SUTTON

## LONDON BOROUGH OF TOWER HAMLETS Directorate of Development ARCHITECTURAL ASSISTANT Up to £13,485

To assist on a wide range of refurbishment new build projects or environmental improvement works.

Applicants should have completed RIBA Part 1 examinations. Although this is a permanent post, students seeking a 'year out' experience will be considered.

Applicants are considered on the basis of their suitability for the post regardless of sex, racial origin, marital status, disability or age.

Application forms and further details from Personnel Services, Town Hall, Patriot Square, London E9 9LN, or telephone our answering service on 01-981 0077. Please quote reference 164/511089/78/80. Closing date for receipt of completed applications 19th May 1988.

## MAINTENANCE & IMPROVEMENT OFFICER SO £9,975-£11,280 pa

We are looking for someone to work with the minimum of supervision on a variety of projects comprising pre-planned maintenance of the Council's housing stock, its administrative complex at Oaklands, together with various key centres and other corporate buildings. Applicants must have an enthusiastic and flexible approach, organising projects from inception to completion and supervising both staff and site works, ensuring that the Council's various programmes are maintained. Applicants should also have a minimum qualification of Intermediate Stage R.L.C.S. (Building), H.N.C. Building, or be able to demonstrate considerable relevant experience.

## ARCHITECTURAL TECHNICIANS SS £7,920-£8,697 pa

Two people are needed to work with the minimum of supervision on a variety of projects, comprising mainly modernisation, repair and conversion works to the Council's housing stock, together with new build schemes. Applicants must be able to operate within a small team, have an enthusiastic and flexible attitude and hold a minimum qualification of H.N.C. Building, M.S.A.A.T., or already be experienced in this area of work.

All three jobs are in the Architects Division of the Health and Housing Department and carry essential car user allowances. For an informal discussion regarding any of these 3 vacancies telephone Ron Pooley, Principal Architect, on extension 5411. For an application form and job description contact Personnel Department, Mid Sussex District Council, 'Oaklands', Oaklands Road, Haywards Heath, West Sussex RH16 1SS (Tel: 0444-458166 Ext. 9276). Closing date 8/5/88.

## Architect

PO.2. £13,167-£14,202 inclusive

In common with most Local Authorities this Council is directing its efforts towards the repair and improvement of its own buildings.

You should be used to handling a busy workload involving detailed design, working drawings and undertaking site supervision.

If you are an Architect who has experience of this type of project and is committed to working within a multi-disciplinary office and willing to accept responsibility then apply for an application form from London Borough of Hammersmith and Fulham (Personnel), Town Hall Extension, King Street, Hammersmith W8 8JU, telephone 01-741 0804 (24 hour answering service) quoting ref: AHAB.8/80. Closing date 14th May 1988.

For an informal discussion contact Mr M. Lee on 01-748 3020 ext 4704.

## Architectural Assistant/Technician £8,217-£12,921 inclusive

You will need a wide knowledge and experience of building construction and be able to demonstrate the ability to run small projects or contribute as part of a team on larger jobs.

You should be qualified up to RIBA/RICS Part 1 or possess HNC and will be expected to undertake property surveys, specifications and to show quick and able draughtsmanship.

For further details regarding the post please contact Mr M. Lee on 01-748 3020 extension 4704.

Application forms from London Borough of Hammersmith and Fulham (Personnel), Town Hall Extension, King Street, Hammersmith, W8 8JU, telephone 01-741 0804 (24 hour answering service) quoting ref: AHAA.14/80. Closing date: 14th May 1988.



## DEPARTMENT OF PLANNING AND ARCHITECTURE ARCHITECTURAL TECHNICIAN SITE SUPERVISOR Salary Grade 54/5 £6,500-£8,697

An additional experienced Architectural Technician is sought for a busy architectural division working on a variety of schemes, large and small and who will be required, when occasion demands, to undertake supervision of Contracts in progress to ensure that specified standards are being met. The successful applicant will be expected to work with minimum supervision.

Job description and application forms available from: The Personnel Officer, Gloucester City Council, 75-81 Eastgate Street, Gloucester GL1 1HJ. Telephone: Gloucester 31271 ext. 47. Closing date for return of completed applications: Friday 26 May 1988.

The City Council is an equal opportunity employer and applicants are considered on the basis of their suitability for the post regardless of sex, marital status, colour, race, nationality, religion, sexual orientation, trade union activity, political activity, or, subject to the physical requirements of the post, disability.



## BOROUGH OF SOUTH TYNESIDE

### DIRECTORATE OF TECHNICAL SERVICES DEPARTMENT OF PLANNING ASSISTANT LANDSCAPE ARCHITECT Sc3-S02 £6,234 — £11,804 p.a.

A landscape architect is required for the Department's Landscape Team. The post covers a balanced workload including Inner Areas Programme projects, recreation, housing, urban fringe, General Improvement Areas, industrial and recreational landscape schemes, incorporating internal County Council contracts and new schemes. The post will be responsible to a Senior Landscape Architect, and will have support available from a Site Supervisor and a Technician. The postholder should have a degree or diploma in Landscape Design, and preferably Associate Membership of the Landscape Institute, together with a minimum of one year post degree or diploma experience.

Anyone requiring further information on this post should telephone Marilyn Balchelor (081-456-8841 extension 288).

Application forms are available from the Chief Personnel and Management Services Officer, Westoe Hall, Westoe Village, South Shields (Telephone Tyneside 091-455 4988) and should be returned by Noon on 15th May 1988.

## MID GLAMORGAN COUNTY COUNCIL Land and Buildings Department PROJECT ASSISTANT (Architect) Scale S01/P01

The Authority is seeking a young and enthusiastic qualified architect with management potential to develop their career and work as part of a multi-discipline design team in the largest local authority in Wales.

### THE VACANCY

is within the Architectural Section of the Land and Buildings Department which is undertaking a demanding design programme covering a wide range of projects. The Department is committed to the use of new technology including computer aided design.

### THE SUCCESSFUL CANDIDATE

must be able to work under pressure and demonstrate that he/she can deliver the goods on target and within budget.

### QUALIFICATIONS

Registered Architect with 3 years post qualification experience.

### SALARY

Is within the range £9975-£12168

### APPLICATION FORMS

which must be returned by 16 May 1988 are available from the Director of Land and Buildings County Council Offices, Greyfriars Road, Cardiff. Telephone 830504

NATIONAL CONDITIONS OF SERVICE  
CANNVASSING WILL DISQUALIFY  
AN EQUAL OPPORTUNITIES EMPLOYER

# PUBLIC SECTOR APPOINTMENTS

## PERTH & KINROSS DISTRICT COUNCIL Architectural Services Department ARCHITECT Salary Scale £10,838-£11,819

The Architectural Services Department handles, in addition to its housing programme, a wide variety of capital projects for other client departments and agency work for other bodies, offering the opportunity for considerable responsibility for projects, from inception to completion, to the successful candidate.

The successful candidate should be a registered architect or graduate, ideally with several years office experience. Assistance with housing and relocation expenses may be available in appropriate cases.

A mileage allowance and car leasing/loan schemes are in operation.

Further particulars and application forms are obtainable from the Director of Personnel, Perth & Kinross District Council, Council Building, 2 High Street, Perth PH1 5PH (Tel. Perth 39811, Ext. 3704/5). Forms to be in by 7th May, 1988.

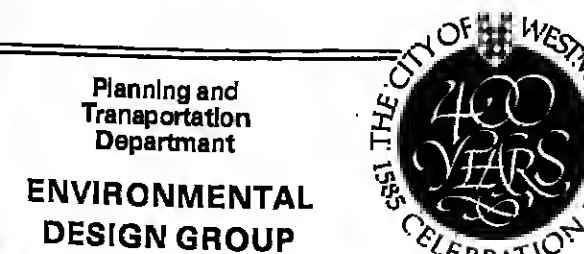
## BOROUGH OF SOUTH TYNESIDE

### DIRECTORATE OF TECHNICAL SERVICES DEPARTMENT OF PLANNING LANDSCAPE TECHNICIAN £6,900-£7,713 p.a.

Applications are invited for a landscape technician with not less than 3 years experience working with a landscape or environmental improvement team (preferably Local Authority) to provide technical support for a well established and busy team of six landscape architects and one site supervisor.

The initial appointment and progression through grade will depend upon qualifications, experience and job performance. Duties will include preparation of Committee and contract drawings from draft schemes prepared by landscape architects; updating and amending standard detail; maintenance of section project and trade literature files; assisting the site supervisor with site surveys and maintenance of site records; help with tree surveys and updating tree register and collection of Statutory Undertakers Services Information and general administrative duties.

Application forms are available from the Chief Personnel and Management Services Officer, Westoe Hall, Westoe Village, South Shields (Telephone Tyneside 091-455 4988) and should be returned by Noon on 8th May 1988.



## Planning and Transportation Department ENVIRONMENTAL DESIGN GROUP

Following the creation of the combined Planning and Transportation Department under J.R.G. Thomas, applications are invited for the following post in the Environmental Design Group of the multi-disciplinary Urban Design Division. The work of the Division is concerned with the design and development of a wide range of urban, environmental and transport projects. The Environmental Design group, working closely with the Traffic Design Group within the Urban Design Division, is responsible for the redesign of all the pedestrian open space and urban renewal schemes within the City, ranging from the redesign of Oxford Street, Leicester Square and Soho, to the refurbishment of subways, housing area improvement schemes and the landscaping of its many historic streets and squares. It is also responsible for the production of a well designed range of street furniture, guidance policies and advice on historic buildings, conservation areas and environmental design input into traffic improvement schemes.

Applicants should be suitably qualified and experienced. Please telephone the Assistant Director (Urban Design) Dennis Ashbourne on 01 788 2630 or Noel Hill the Head of the Environmental Design Group on 01 788 2920, for any further information.

## Environmental Design Team Leader (Development)

Salary £15342-£18428 per annum.  
You will be responsible for leading the design work and management of two teams — one team dealing with environmental design projects, planning briefs and the preparation of feasibility and environmental impact studies; the other team dealing with design studies reports, the production of urban design policies and standards for townscapes, street furniture, heritage trails, pedestrian subway improvements and environmental (traffic) schemes, also design guidance on urban design matters and advice on related non-statutory policy. You should be a chartered and registered architect/urban designer with at least eight years of professional/practical experience. This key urban design post presents a creatively challenging opportunity for the right person in the Central London position. Applicants should preferably be knowledgeable in the work of the private sector as well as local government and understand the professional and technical work of the Division and its relationship to other Divisions, Departments of the City Council and outside agencies.

How to Apply:  
For an application form telephone 01-834 5858 (24 hour Answerphone Service); call at the One Stop Services floor at City Hall or write to the Personnel Manager, Personnel Management Division (Ref. PT 18), P.O. Box 240, Westminster City Council, City Hall, Victoria Street, London SW1E 6QP. Closing date 8 May, 1988.

## WYCHAVON DISTRICT COUNCIL ARCHITECT (PROJECTS) Ref: AAP58

ARCHITECT (DEVELOPMENT CONTROL) Ref: AAP5  
£9975-£11604 p.a.

## ARCHITECTURAL TECHNICIAN Ref: AAP62 £4773-£7713 p.a.

Wychavon covers 260 sq miles of rural Worcestershire, which includes the famous Cotswold village of Broadway, the market town of Evesham, Georgian Pershore and Droitwich Spa, plus a wealth of buildings and areas of special architectural interest.

Our Architects have designed and built over 1,800 houses, flats and OAP bungalows since 1974 as well as working on public buildings, leisure facilities and currently a new very sheltered scheme and improvements to existing sheltered buildings and flats.

We require two qualified Architects with a positive design approach plus a technician to join the enthusiastic design and project teams in our Department of Planning and Architecture in Droitwich.

Essential Car User Allowance. Relocation expenses payable in appropriate cases.

Job description and application form from: The Personnel Officer, 53 Head Street, Pershore, Worcs. WR10 1DA. Tel: 0386 553064 (24 hr answer service). Closing date: 9th May.

## District Building Control Officer £10,290-£12,483 p.a. inc. (Payaward pending)

A vacancy has arisen for someone to join our small team of Building Control Officers based in Rickmansworth, Hertfordshire.

The successful applicant will be responsible for plans examination under the Building Regulations and allied legislation, within one of six designated districts, together with associated site inspections and enforcement. Other duties include action in respect of dangerous structures and supervision of demolition works. The Council has developed a computerised system to assist the provision of an efficient professional service to the public.

Applicants must be qualified members of the Institution of Building Control Officers with at least 3 years post qualification experience, although consideration will be given to persons qualified to Part II Professional Examination level, initially appointed on salary scale SQ.1/2.

Three Rivers District Council is situated in a pleasant part of South West Hertfordshire. A generous relocation package is available in approved cases. A current driving licence and personal transport is essential for which an Essential User Car Allowance will be paid.

For further details and on application form please contact the Personnel Department, Three Rivers District Council, 17/23 High Street, Rickmansworth, Herts. Telephone 0823 779811 ext. 38. Closing date for applications is 8 May 1988. An equal opportunity employer.



# Building a better London

That's the aim of the Central Technical Unit; an exciting new cost efficient venture that's been set up to provide a professional design service to the public sector.

Seven London Boroughs — Greenwich, Hackney, Lambeth, Lewisham, Newham, Southwark, and Tower Hamlets — had the foresight to collaborate in our establishment. Others are likely to join them soon.

Although most of our efforts will be directed towards the renovation of housing, we'll tackle many types of building project: ranging from small refurbishment projects to £ multi-million contracts.

We're starting off with a committed programme of £40 million per annum. But these are early days. Once we've gathered together all the technical expertise we need we'll be in a strong position to undertake the design of any public building project in London and achieve our projected annual turnover of £70 million.

## Architects & Building Surveyors up to £13,830

Skilled professionals with all levels of experience, from the public and private sectors, are urgently wanted to work on various projects throughout the London area. Enthusiasm and the ability to work creatively within cost limits are equally as important as formal qualifications.

For more details about these posts, please ring Group Officers, Patrick Hamilton or Peter Camm-Jones on 01-735 1268. For an application form, please ring the Personnel Department on 01-735 1266 ext. 248 or 360.

We're also offering up to £15,702 or more for exceptional candidates for all grades of MECHANICAL AND ELECTRICAL ENGINEERS. Full information about these positions can be obtained by ringing Michael Prince or David Richards on 01-735 1286.

Close to Vauxhall tube and British Rail Stations our new Vauxhall Offices at 95-97 Wandsworth Road, London SW8 offer a superb working environment where NJC terms and conditions apply.

WE ARE AN EQUAL OPPORTUNITIES EMPLOYER.

